

User Manual

iData 90



www.idatachina.com

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1 Introduction

1.1 Appearance of iData 90



Figure 1-1 Front view of iData 90



Figure 1-2 Rear view of iData 90



1.2 Installing an SD Card

To install an SD card, do as follows:

- 1. Push the card cover along the direction marked on the cover and open the cover.
- 2. Insert an SD card.
- 3. Press the SD card downward and lock the card along the IN direction marked on the cover.

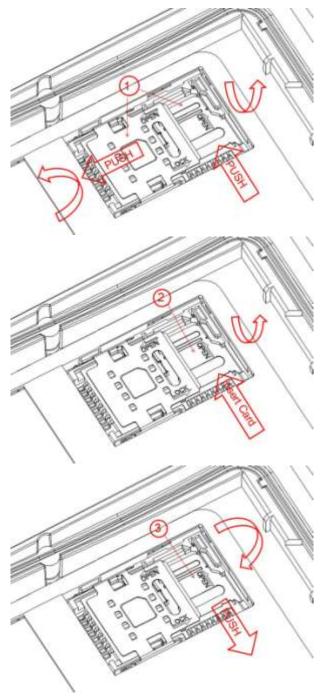


Figure 1-3 Inserting an SD card



1.3 Installing a SIM Card

To install a SIM card, do as follows:

- 1. Insert a SIM card along the direction, as shown in Figure 1-4.
- 2. Press the card cover downward.
- 3. Push the SIM card along the LOCK direction to lock the card cover.

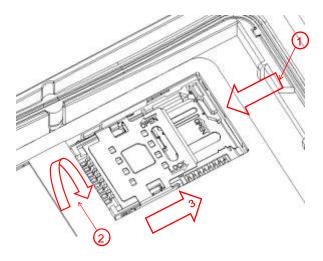
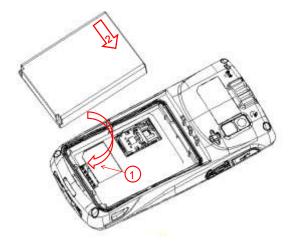


Figure 1-4 Inserting a SIM card

1.4 Installing a Battery

To install a battery, do as follows:

- 1. Push the battery to the bottom of the battery compartment.
- 2. Press the top of the battery downward to tighten the battery.
- 3. Push the joint at the bottom of the battery cover into the back shell.
- 4. Push the lock to the left and press the battery cover downward until the lock automatically returns to the location on the right.





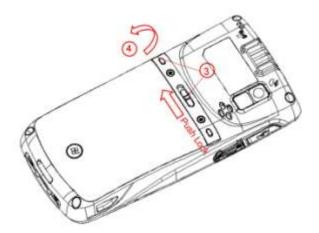


Figure 1-5 Installing a battery

1.5 Disassembling the Battery Cover

To disassemble the battery cover, do as follows:

- 1. Insert your left forefinger into the upper left part of the battery cover and push the lock to the left by using the thumb.
- 2. Pull out the battery cover.

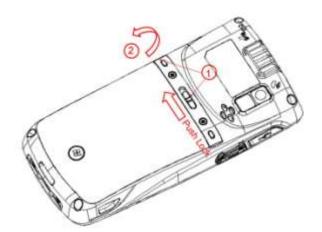


Figure 1-6 Disassembling the battery cover

1.6 Charging

You can charge a battery in the following ways:

- 1. Charge the iData 90 by using a charger.
- 2. Connect the iData 90 to a PC by using a USB cable to charge the iData 90.

In the charging status, the LED is red. When the LED becomes blue, charging is complete. If you charge the battery when the iData 90 is powered on, the battery icon on the upper right part of the screen changes, indicating that charging starts.



When the battery volume is low, an alarm is generated on the screen of the iData 90 and



the battery volume becomes

When the battery volume is too low, the iData 90 is automatically powered off.

★ Caution

The battery can be charged for more than or less than three hours. The battery will not be damaged if charging is interrupted. The duration of the battery depends on different applications of the iData 90, for example, selected functions of iData 90, usage mode, and data transmission.

Tips

To ensure a longer standby time of the iData 90, follow the following tips:

- Always connect the iData 90 to the AC power supply when you do not use it.
- In the power supply setting, set the iData 90 to make it automatically closed after being idle for a short time.
- Set the backlight to make it automatically closed after being idle for a short time.
- Stop all wireless activities when you do not use the iData 90.

1.7 Power-on

After installing a SIM card and a battery and charging the iData 90 completely, you can use the iData 90.

- 1. Press and hold the On/Off key (for several seconds.
- 2. The power-on page is displayed, and the iData 90 enters the Windows Mobile operating system after the boot process is complete.

When you power on the iData 90 for the first time, the iData 90 initializes the file system of the flash memory. During the period, the initial page remains for about one minute. Then some basic settings such as screen calibration, date and time, and Email setting appear. If you do not want to set these items, directly skip them.



2 Instructions on iData 90

2.1 Home

Home is the start page of the iData 90 and displays important information such as upcoming appointments and tasks. At **Home**, you can add items or change the background by selecting **Start** > **Settings** > **Home**. Click a program at **Home** to open it.

The default page of the iData 90 is **Home**. If the iData 90 is not at **Home**, select **Start** > **Home** to switch to **Home**.



Figure 2-1 Home

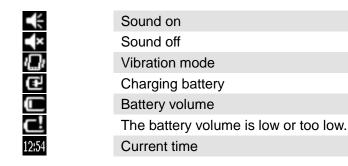
★ Caution

When the iData 90 is switched to **Home**, some applications may still run in the background. If you do not wish the applications to run in the background, close the opened applications through the task manager.

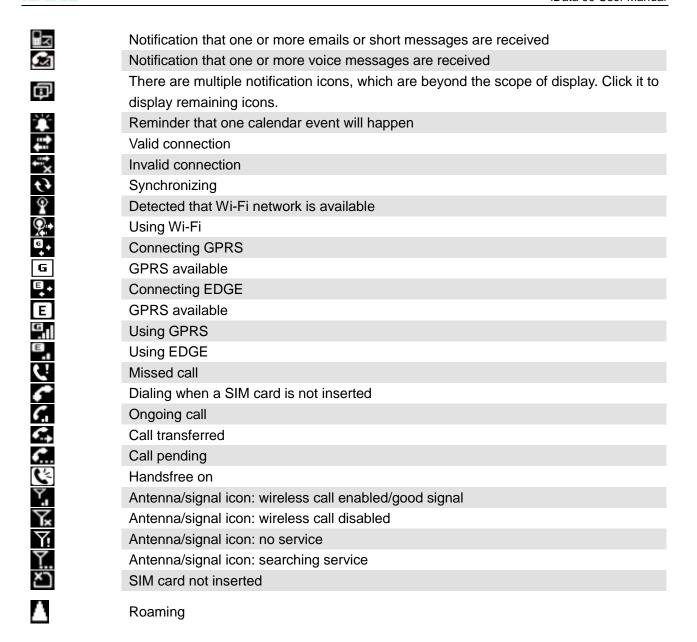
2.2 Status Icons

Status icons are in the status bar at the upper part of the screen and show device status and notifications.

Table 2-1 Status icons







2.3 Applications Window

Click **Start**. The applications window is displayed, where icons of applications are placed. You can drag the icons of applications to sequence applications according to your habits. Click the icon of an application to open the application.





Figure 2-2 Applications window

2.4 Icons of Applications

Icons of Applications

Table 2-2 Icons in the applications window

Icon	Name	Description
	Home	Turns to the start page of the iData 90.
0	Settings	Manages the iData 90.
P	File Explorer	Organizes and manages files on the iData 90.
TMICHT II	iScan	Scans and reads barcodes.
	Notepad	Creates, views and edits files.
@	Internet Explorer	Browses web pages and WAP websites and downloads new programs and files from the Internet.
0	ActiveSync	Synchronizes information between the iData 90 and the host or Exchange Server.
	Camera	Shoots photos or videos.
₽	wpctsc	Logs in to a remote computer and uses available programs in the remote computer through the iData 90 after starting the remote desktop.
	Google Maps	Views the geographical location of a target, obtains the satellite map and life information, and performs GPS-based positioning and vehicle navigation.
0	Phone	Makes and receives calls, switches between calls and sets conference calls.



Icon	Name	Description
	E-mail	Sends or receives emails and text messages.
%	Text	Sends or receives short messages, multimedia messages and voice mails.
2	Contacts	Records contacts such as friends and colleagues.
30	Calendar	Views dates, tracks appointments and creates appointments.
O	Alarms	Views and sets time/date and sets alarms.
	Pictures & Videos	Views and manages pictures, cartoons and video files.
+=	Calculator	Performs basic arithmetic operations such as add, subtract, multiply and divide.
	Windows Media	Plays audio and video files.
7	Notes	Creates notes, drawings and recordings by writing or typing.
7	Tasks	Tracks execution of tasks.
3	Internet	Connects a laptop computer to the Internet through the data connection of the iData 90.
kethe	Task Manager	Views ongoing processes and allocation of the memory and CPU and stops processes.
?	Help	Views the help information about the current screen or program.

Setting Icons

Table 2-3 lists the control applications that are preinstalled on the iData 90. Select **Start** > **Settings**. The **Settings** window is displayed.

Table 2-3 Setting icons in the Settings window

Icon	Name	Description	
Personal tal	0		
O _c	Buttons	Allocates keys to a program.	
200	Owner Information	Enters personal information onto the iData 90.	



Icon	Name	Description			
6	Phone	Sets call security, services, network, band and ringtone.			
System tab	System tab				
18	GPS Setting	Sets GPS and views GPS logs and satellite status.			
*	About	Views the basic information about the iData 90, for example, operating system version, processor type, memory, and device information.			
	Encryption	Encrypts files on the memory. You can read encrypted files only on your device.			
***	Customer Feedback	Submits a feedback about Windows Mobile.			
Park.	Task Manager	Views the memory and CPU allocation and stops processes.			
000000	Memory	Checks memory allocation and information about the memory card.			
3	Regional Settings	Sets the zone configurations to be used, including numbers, currencies, date and time formats displayed on the iData 90.			
	Full screen Mode	Sets the screen display mode.			
8	Remove Programs	Removes programs installed on the iData 90.			
*	External GPS	Sets an appropriate GPS communication port if required. If a program needs to access GPS data or you have connected the GPS receiver to the iData 90, this operation is needed.			
	Restore Factory Defaults	Restores factory settings.			
	Managed Programs	Lists the programs installed by the system administrator remotely.			
	Device Information	Displays the device version, hardware and features.			
K	Error Reporting	Enables or disables the error report function of the iData 90.			
-	Screen	Changes the screen direction, recalibrates the screen, and changes the text size and font.			



Icon	Name	Description
	Power	Views the battery volume and sets the interval for closing the display after the iData 90 becomes idle in different cases.
8	Alarm Setting	Sets the automatic power-on and power-off time every day.
	Certificates	Views the certificates installed on the iData 90.
	KeyLock	Selects the mode for locking the keypad when the iData 90 is closed.
	Backlight	Sets the duration for closing the backlight when the iData 90 is powered by a battery or external power supply and the iData 90 is idle and adjusts the screen brightness.
C.	Phone Record	Sets the storage location of call recordings.
Connection	s tab	
?	Wi-Fi	Sets wireless network connections and customizes settings.
	Wireless Manager	Enables or disables wireless communication of the iData 90 and customizes the WLAN and phone settings.
	Domain Enroll	Registers the iData 90 as a member in the AD domain for device management and security purposes.
	USB to PC	Enables or disables enhanced network connection.
•	Beam	Sets the IrDA light beam received by the iData 90.
	Connections	Sets one or more modem connections such as dial-up, GPRS so that the iData 90 can be connected to the Internet or a dedicated local network.

2.5 Keypad Operations

The iData 90 provides two keypads: screen keypad and physical keypad.

Using Screen Keypad

When you start an application or choose to enter text or numbers, the screen keypad is displayed.





Figure 2-3 Screen keypad

Displaying Screen Keypad

Click any place where text can be entered. The screen keypad is displayed.

Hiding Screen Keypad

In the text state, click (a) to hide the screen keypad.

To display the hidden screen keypad again, click again.

Using Physical Keypad

Figure 2-4 shows the physical keypad, which has 26 keys in total. In terms of function, the keys are divided into numeric/letter/symbolic keys, direction keys, and scan keys.



Figure 2-4 Key layout on the physical keypad

Installing the Notification Program of Physical Keypad

MC90KEY_Notify.CAB is the notification program of the physical keypad provided by Wuxi iData Technology Company Ltd.

- Copy MC90KEY_Notify.CAB to My Device\Program Files\SetupNotify (if the SetupNotify directory does not exist, create the directory).
- 2. Run MC90KEY_Notify.CAB.
- 3. After the MC90KEY_Notify.CAB program is installed, the iData 90 automatically



restarts.

4. Select **Start** > **Tools** and click to run the program.

After the program is run, you can see the new icon 1 in the status bar on the screen.

★ Note

When you press **Shift** on the physical keypad to switch the input mode, the icon of the physical keypad mode in the status bar also changes.

- 1: The physical keypad is in the numeric input mode.
- **a**: The physical keypad is in the lowercase input mode.
- A: The physical keypad is in the uppercase input mode.

2.6 Adjusting Volume

Adjust the system volume or phone volume by clicking the icon of speaker in the status bar.

- 1. Click the status bar. A drop-down list box is displayed.
- 2. Click the icon of speaker. The volume dialog box is displayed.
- 3. Click and move the scroll bar to adjust the system volume and phone volume.

Select On, Off, or Vibrate to open or close volume or enter the vibration mode.

You can set the system volume in the **Sounds & Notifications** window by selecting **Start** > **Settings** > **Sounds & Notifications**.

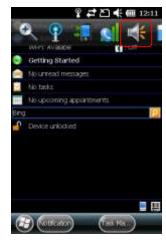




Figure 2-5 Speaker

Figure 2-6 Volume dialog box

2.7 Date and Time

To change the date and time in the iData 90, do as follows:

1. Select Start > Settings > Clock & Alarm. The Clock & Alarm window is displayed.



- 2. Click **Time Zone**, **Date**, and **Time** to set the items.
- 3. Click **OK** to exit the window.

You can also click the icon of clock at **Home** or the icon of alarm in the applications window.

2.8 Setting Ringtone

To change the ringtone of the iData 90, do as follows:

- Select Start > Settings > Sounds & Notifications. The Sounds & Notifications window is displayed.
- 2. In the **Sounds** tab, enable or disable sound for an event. You can also click **Screen taps** and **Hardware buttons** to enable or disable sound.
- 3. In the **Notifications** tab, select an event, a ringtone type, and a ringtone.

2.9 Setting Screen

To set the screen, do as follows:

- 1. Select Start > Settings > System > Screen.
- 2. In the **General** tab, set the screen direction to adjust the screen.
- 3. In the **ClearType** tab, set the screen font.
- 4. In the **Text Size** tab, adjust the font size.
- 5. Click **OK** to exit the window.

To adjust the screen brightness, do as follows:

- 1. Select Start > Settings > System > Backlight.
- 2. In the **Battery Power** tab, move the sliding block to adjust the screen brightness and select the **Turn off backlight** check box to set the duration for closing the screen when the screen is idle.
- 3. In the **External Power** tab, move the sliding block to adjust the screen brightness and select the **Turn off backlight** check box to set the duration for closing the screen when the screen is idle.
- 4. Click **OK** to exit the window.



3 Call Function

3.1 Making a Call

To make a call by dialing a number directly, do as follows:

- 1. Select **Start > Tools > Phone**.
- 2. Enter a telephone number.
- 3. Click Talk.

If you press a wrong number, click the backspace key (←) to clear the number.

To make a call by using a contact, do as follows:

- 1. Select **Start > Tools > Contacts**.
- 2. In the contact list, select the contact to be called.
- 3. Click Call mobile.

Making Calls in Other Ways

You can also make calls by directly clicking the numbers of contacts from call records or messages.

3.2 Answering Calls

The iData 90 displays a dialog box when receiving an incoming call. If the phone is set to ringing, the phone rings. You can answer or ignore the call. To answer the call, click in the **Call-dial** dialog box or press the green call key on the keypad of the iData 90.

During a call, you can perform the following operations:



Figure 3-1 Call window

- 1. Click **Record** to record the current call.
- 2. Click **Speaker On** to open the speaker.
- 3. Click **Mute**. The opposite party cannot hear you but you can hear the opposite party.
- 4. Click **Hold** to hold the current call and answer another incoming call.
- 5. Click **Note** to create a note for adding information.
- 6. Click **Contacts** to view information about contacts.
- 7. Click **End** to release this call.



3.3 Contacts

You can select **Start** > **Tools** > **Contacts** > **New Contact** on the iData 90, and then create the contact name, telephone number and related information. You can also copy contacts in the SIM card to the iData 90 or synchronize the contacts in the PC.

You can view and add contacts directly on the iData 90. If someone calls you or sends an Email or short message to you, you can add the person to the contact list. (Select the number of the contact, click **Menu** and **Save** to save the contact, and then enter information about the contact.)

3.4 SMS

By using the SMS, you can send short messages to mobile data terminals or receive short messages from mobile data terminals. The text may include combinations of characters, digits or letters but cannot exceed 160 characters. If text information is too long, the text is sent through multiple short messages.

New

- Select Start > Tools > Text > Menu > New > Text Message, and enter the number of the recipient or select Menu > Add Recipient.
- 2. Edit the content.

Reply

- 1. In the message list, click the contact to whom a message will be replied.
- 2. Edit the content to be replied.
- Click Send ...

Delete

- 1. In the message list, select the message to be deleted.
- 2. Select **Menu > Delete**.
- 3. Click Yes.

3.5 E-mail

You can send and receive Emails through the Email account your often use by using the iData 90.

Setting Email Account

1. Select Start > Tools > Email.



- 2. Click **Setup E-mail** and enter your Email account and password.
- 3. Select Try to get e-mail settings automatically from the Internet and click Next.
- 4. Click **Next** to complete the setting and download Emails.
- 5. Enter your name and click Next.
- 6. Enter a user name and click **Next**.
- 7. Select the time for **Automatic Send&Receive** and click **Finish**.

★ Caution

Before setting an Email connection, ensure that the network connection is correct. If the setting of your Email account cannot be completed automatically, you can enter your Email account setting manually. Before entering the Email account setting, contact your Email service provider to obtain the correct Email account setting. For example, you need to know whether the type of your Email account is POP3 or IMAP.

Deleting an Email Account

- 1. Select **Start > Tools > Email**.
- 2. Select an Email account.
- 3. Select Menu > Delete.
- 4. Click Yes.

Creating and Sending an Email

- 1. Select **Start > Tools > Email**.
- 2. Select an Email account and click it to open the account.
- 3. Select **Menu** > **New**.
- 4. Enter the address of the recipient and the subject and edit the content.
- 5. Click Send

Receiving and Opening Email

- 1. Select **Start > Tools > Email**.
- 2. Select an Email account and open the Email box.
- 3. Click in the upper left corner and select **Inbox**.
- 4. Click **Email** to open and read the Email.

Deleting an Email

- 1. Select **Start** > **Tools** > **Email**.
- 2. Select an Email account and open the Email box.
- 3. Click win the upper left corner and select **Inbox**.
- 4. Select the Email to be deleted.
- 5. Click in the lower left part.
- 6. Click Yes.



4 Connection and Synchronization

4.1 GPRS Data Connection

After a GPRS data connection is established, you can access the Internet. To establish a GPRS data connection, ensure that a SIM card is installed in the iData 90.

Configuring a GPRS Data Connection

- 1. Click the status bar on the screen. A drop-down list box is displayed.
- 2. Click ... A dialog box is displayed.



Figure 4-1 Connectivity dialog box

- 3. Click **Settings**.
- 4. Click Manage Existing Connections under Internet.
- 5. Click and press **Mobile Internet** until a shortcut menu is displayed.



Figure 4-2 Data connection

- 6. Select Connect.
- 7. After the connection is established, start the Internet Explorer or an applicable application to access the Internet.



★ Caution

If a connection is not established, you need to enter a correct APN again.

Disconnecting a Data Connection

To cancel an ongoing data connection, click **Cancel** in the **Connecting** dialog box.

To disconnect an established data connection, do as follows:

- 1. Click the status bar. A drop-down list box is displayed.
- 2. Click 🚚. A dialog box is displayed.
- 3. Click Disconnect.

4.2.1 Wi-Fi Network Connection

You can access the Internet on the iData 90 by using Wi-Fi.

When you connect to the Internet using Wi-Fi, you need to search and connect to an available Wi-Fi network before you can access the Internet.

Enabling and Setting Wi-Fi

- 1. At Home, click Wireless Manager.
- 2. Click Wi-Fi to enable Wi-Fi.
- 3. Select **Menu** > **Wi-Fi Settings**.
- 4. Confirm the IP address. In the Network Adapters tab, select Marvell SDIO8686 Wireless Card and click Edit. The IP Address setting page is displayed. Ask your network administrator which IP address should be entered. If IP addresses are assigned over DHCP, select Use server-assigned IP address.

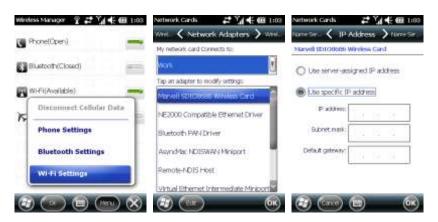


Figure 4-3 Wi-Fi connection setting

- After setting the IP address, click the Wireless tab. The iData 90 searches for and displays available Wi-Fi networks, which are open or secure networks.
- 6. Select one Wi-Fi network to connect to the network. If you intend to connect to a secure Wi-Fi network, you are required to enter the password of the network. After you connect to the network, the network displays **Connected**.



★ Caution

The iData 90 memorizes the connected Wi-Fi network. Next time when you need to access and connect to the Wi-Fi network, the iData 90 automatically connects to the network.

4.2.2 iData Wi-Fi Optimization

The Wi-Fi optimization tool helps users adjust different values based on the usage environment to achieve the optimal setting.

To open the iData Wi-Fi optimization tool iDataWiFiConfig, do as follows:

- 1. Install the iScan of the latest version.
- 2. Select **Program Files** -> **iData**, open the **Addons** folder, and open the iDataWiFiConfig tool.

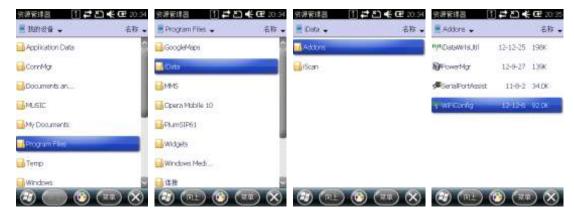


Figure 4-4 Path for storing the iDataWiFiConfig tool

Parameter settings

- 1. It is recommended to retain the value of **Associate Retry Times**.
- 2. It is recommended to retain the value of **Power mode**.
- 3. The value of Roaming mode ranges from 1 to 4. Roaming mode must be set to 4.
- 4. The value of **RoamSignalStrengthThreshold** ranges from -100 to 0. According to the actual usage environment, set the optimal value. The empirical value ranges from -80 to -60 (dB).
- 5. The value of **Roam Diff RSSI Threshold** ranges from 1 to 50. According to the actual usage environment, set the optimal value. The empirical value ranges from 10 to 15 (dB).





Figure 4-5 Parameter settings using the iDataWiFiConfig tool

4.3 Connecting to a PC through USB

Connect the iData 90 to a PC to transmit and process files such as picture and music files. You can connect the iData 90 to a PC by using a USB cable. When you connect to a PC for the first time, an option box is displayed on the iData 90 for you to select the connection mode. After selecting a connection mode, select the **No Longer Ask** check box. The option box does not appear the next time and a connection is established in the mode selected last time. To set the mode of connecting to a PC through USB, select **Start** > **Settings** > **Connect** > **USB to PC**.



Figure 4-6 USB to PC window

For the USB connection mode, you can select **Disk Driver** or **ActiveSync**. If you select **Disk Driver**, file transfer is faster but the memory card is not displayed in the file explorer.

4.4 Synchronization

The synchronization function is used to synchronize information between the iData 90 and a PC to share the same directory, information or calendar events. To realize



synchronization, you need to install the synchronization software on the PC.

Installing Synchronization Software

- 1. Download the installation package of ActiveSync4.5 or above.
- 2. Run the software package and install the synchronization software according to the installation wizard.

★ Caution

- To synchronize contacts, calendar, emails, tasks, and notes, first ensure that Microsoft Office Outlook is installed on your PC. Otherwise, you cannot select the items.
- The ActiveSync can synchronize information with Microsoft Outlook rather than Microsoft Outlook Express.
- When the iData 90 synchronizes information with a PC through ActiveSync, ensure that the Internet sharing function is in the disconnected status. Otherwise, ActiveSync cannot establish a connection automatically.

Synchronizing with a PC

- 1. Connect the iData 90 to a PC by using a USB cable.
- 2. Microsoft ActiveSync starts automatically on the PC. After that, the task bar in the lower right corner of the PC becomes and keeps rolling. In this case, the synchronization wizard is displayed.
- 3. Select the options to be synchronized according to the synchronization wizard and establish partnership between the iData 90 and the PC.
- 4. Click Finish.

Changing the Type of Information to Be Synchronized and Setting

In the ActiveSync software on the PC, you can change the type of information to be synchronized and the setting. Select **Tools** > **Options** and select the type of information to be synchronized. When options are available, click **Set** and select the required option.

★ Caution

- The information that can be synchronized by ActiveSync includes contacts, calendar, emails, tasks, notes, favorites, files and media.
- Short messages and multimedia messages cannot be synchronized.

Canceling Synchronization

If synchronization is canceled, all synchronization and file conversion settings selected for the iData 90 are deleted.

- 1. Open ActiveSync on the PC.
- 2. Select **Files > Mobile Devices** and select the target device.
- Select Files > Delete Mobile Devices.



5 Introduction to iScan

To collect data, you must install and start the scan application on the iData 90. Wuxi iData Technology Company Ltd. provides the embedded system component iScan, which can send the data decoded by a barcode scanner to applications by simulating keypad input. The iData products that are equipped with RFID modules are supported. These products are used to detect compatibility of devices and demonstrate RFID applications.

5.1 Starting iScan

The iScan program is started by default after the system is started. You can also select **Start** > **iScan** to start iScan. After the iScan program is started, the iScan icon **III** is displayed in the lower area of the iData 90.

5.2 Using iScan

- 1. Click . A menu is displayed.
- 2. Select the functions to be enabled. After a function is enabled, $\sqrt{}$ is displayed in front of the function.



Figure 5-1 iScan menu

5.3 Description of iScan Menu

Enable BarCode

This function supports barcode scanning and identification. The scanned barcode can be simulated as keypad input and transmitted to the relevant application.

Enable RFID

This function supports reading IDs of RFID labels, decoding RFID labels and sending the



decoding results to the relevant application.

2D Coding

ASCII and UTF-8 codes are supported:

- ASCII: Decoding involves digits, letters and some symbols, namely barcodes of ASCII characters.
- UFT-8: Decoding involves all barcodes containing ASCII characters as well as 2D codes of simplified Chinese.

Misc Utility

- Auto 'ENT' suffix: Simulate Enter as the acknowledgement for completion of input.
- WiFi Conn. Keepon: The built-in power management module in the Windows Mobile system disables Wi-Fi by default to save power when the iData 90 is in the standby status. After this function is enabled, the Wi-Fi connection can be always retained.
- Disable Dial/Hangup: Windows Mobile 6.5 supports dialing. By default, if you press the
 hang-up key, the system exits the current application and returns to Home. After this
 function is enabled, the default action of the system can be shielded.
- **Enable Keybd**: Through software, some keys on the keypad are replaced by some keys that are originally unavailable on the keypad of the iData 90.

Simulate Mode

Analog input involves keypad message and key action:

- Message(Fast): Analog input is faster.
- Event(slow): Analog input is slower.

About

In the **About** window, you can view the version of the iScan program.

Exit

Click **Exit** to exit the iScan program.

5.4 RFID Reading

The iData 90 is equipped with an RFID module that supports electronic labels complying with ISO14443/15693 and works at the operating frequency of 13.56 MHz. The range of read distance is 2m to 5m.

Reading RFID

- 1. Start the iScan program.
- 2. Enable the RFID function.
- 3. Press the yellow scan key to read a label.
- 4. Adjust the distance between the RFID induction zone and the label.



5. After the label is read successfully, the buzzer rings and the read label ID is sent to the relevant application.



6 Managing iData 90

6.1 Installing Software

The iData 90 uses Microsoft Windows Mobile system, which provides infinite scalability. You can install software on the iData 90. The software that can be installed is in the .cab and .exe formats.

Software in .cab Format

- 1. After the iData 90 is connected to a PC, open **My Computer** and find **Mobile Devices**. Copy the software package to the storage space of the iData 90 or a memory card.
- 2. In **File Explorer** of the iData 90, find the .cab file copied to the iData 90.
- 3. Click the file to start installation and complete installation according to the installation wizard.
- 4. After the software is installed successfully, the software icon is displayed in the applications window.

Software in .exe Format

After the iData 90 is synchronized with a PC, directly copy the .exe file to the storage space of the iData 90 or a memory card, open the file explorer on the iData 90, and directly click the file to run it.

6.2 Removing Installed Programs

If too many programs are installed or some programs are unnecessary, select **Start** > **Settings** > **System** > **Remove Programs** to remove relevant programs.

6.3 Using Task Manager

When the iData 90 runs at a low speed, click **Task Manager** in the lower right part of **Home** or select **Start** > **Settings** > **System** > **Task Manager** to open the task manager, select the required programs, and click **End Task** to close the programs.





Figure 6-1 Task Manager

6.4 Using File Explorer

The file explorer can manage files in the iData 90 and a memory card. It can sequence and transfer the files. You can click **File Explorer** in the lower left part of **Home** or select **Start** > **File Explorer** to open the file explorer.



Figure 6-2 File Explorer

6.5 Restoring Factory Settings

By restoring factory settings, you can make the iData 90 return to the original state.

★ Caution

After the factory settings are restored, all data on the iData 90 will be deleted. Therefore, before performing the operation, back up important data on the iData 90.

- Select Start > Settings > System > Restore Factory Defaults. The Restore Factory Defaults window is displayed.
- 2. Enter 1234 and click YES.







Figure 6-3 Restore Factory Defaults window

You can also press and hold the left function key + right function key + power-on/power-off key to restore factory settings.



7 Precautions and Troubleshooting

7.1 Precautions

To ensure that the iData 90 does not fail, follow the following precautions during use of the iData 90:

- Put the iData 90 and its components and accessories in the places where children cannot reach.
- Keep the iData 90 dry. Rain, moisture and liquid contain acidic materials and will corrode the circuit board.
- Do not store or use the iData 90 in dusty or dirty places.
- Do not store the iData 90 in a place that is too hot. High temperature will shorten the service life of electronic components.
- Do not store the iData 90 in a place that is too cold. When the temperature inside the iData 90 rises, moisture is generated inside the iData 90, which may damage the circuit board.
- Do not try to disassemble the iData 90. Otherwise, the iData 90 may be damaged.
- Do not touch the screen surface of the iData 90 by using a pen, a pencil or other sharp articles in case the screen may be scratched.
- Do not throw, beat or violently collide the iData 90. Otherwise, the components of the iData 90 may be damaged and the iData 90 may be faulty.
- Do not use strong chemical products or strong detergent to clean the iData 90. If the iData 90 become dirty, clean the surface of the iData 90 by using a soft cloth soaked with dilute glass detergent.
- Please use the protective film to reduce wear as much as possible. The screen protective film can improve the availability and durability of the screen.

Pay attention to the following during use of the battery.

- The area where the iData 90 is charged must keep away from scraps, inflammables or chemical substances.
- When you charge the battery of a mobile device, the temperature on the battery and charger must be in the range 0°C to 40°C.
- Do not use incompatible batteries or chargers, which may cause fire, explosion, leakage or other hazards.
- Do not disassemble, press, twist, pierce or cut the battery.
- Do not make the battery short-circuited or contact the connecting terminal of the battery by using metal or other conductive objects.
- Do not insert other materials into the battery, contact the battery with water or other



liquid, or expose the battery in an open fire, explosive source or other sources of danger.

- Do not put or store the battery in the environment where the temperature is too high.
- Do not put the battery in a microwave oven or a drying machine.
- · Do not put the battery into a fire.
- If the battery leaks, do not let the liquid stain your skin or eyes. Otherwise, wash your skin or eyes with lots of water and go to see the doctor immediately.

Cleaning iData 90

Shell

Clean the shell by using a cloth soaked with alcohol, including keys and space between keys.

Display screen

You can clean the display screen by using a cloth soaked with alcohol. Do not let the liquid gather around the screen. Otherwise, dry the screen by using a soft non-woven cloth in case strip marks are left on the screen.

Scan lens

Clean the scan lens regularly by using lens paper or other articles suitable for cleaning optical materials.

7.2 Troubleshooting

Table 7-1 iData 90 troubleshooting

Fault	Cause	Solution
After the power key is	The battery volume is too low or the battery is not charged.	Charge the battery or replace the battery.
pressed, the iData 90 is not powered on.	The battery is incorrectly installed.	Correctly install the battery.
	The system breaks down.	Restore factory settings.
	The battery fails.	Replace the battery.
Battery charging fails.	The temperature of the battery is too high or low.	Put the battery in normal temperature.
During data communication, data is	An incorrect data cable is used.	Contact the system administrator.
not transmitted or transmitted data is incomplete.	The communication software is incorrectly installed or configured.	Install or reinstall the ActiveSync software to update the driver.
The relevant function is not activated after a user	The screen is incorrectly calibrated.	Recalibrate the screen.
clicks a button or icon.	The system does not	Restart the system.



Fault	Cause	Solution
	respond.	
No sound can be heard.	The volume is too low or is disabled.	Adjust the volume.
The iData 90 is closed.	The iData 90 is in the inactive state.	After being inactive for a period of time, the iData 90 is closed. If the iData 90 is powered by a battery, set the time segment to a value in the range from 1 to 5 minutes and the interval to 1 minute. If the iData 90 is powered by external power supply, set the time segment to 1, 2, 10, 15, or 30 minutes.
	The battery is used up.	Replace the battery.
A message indicating that the memory of the iData 90 is full is	Too many files are stored in the iData 90.	Remove unused memos and records. If necessary, save the records on the host or increase the storage capacity by using an SD card.
displayed.	Too many applications are installed on the iData 90.	Remove applications installed on the iData 90.
	The scan application is not loaded.	Load the iScan program in the iData 90.
The iData 90 fails to decode a barcode when reading it.	The barcode is defective and the scanner cannot read it.	Check that the barcode is not defective.
	The battery volume is low.	If the scanner stops sending out laser beam after you turn on the switch, check the battery volume.

Table 7-2 Cable faults

Fault	Cause				Solution
Charging fails.	The cable	is	in	poor	Replace the cable.
	contact.				
The ActiveSync software	The cable	is	in	poor	Replace the cable.
cannot be connected.	contact.				

Table 7-3 Wi-Fi faults

Fault	Cause	Solution
An AP cannot be connected.	A message is displayed, showing that the AP is unavailable.	Start the WLAN device.
connected.	A message is displayed,	The DHCP function is not enabled on the
	showing that the AP is	AP/router and the IP address cannot be set.



Fault	Cause	Solution
	being connected.	In this case, set the IP address manually.
		The password of the WLAN device is
		incorrect.
		Too many devices access the AP at the same
		time. In this case, restart the AP.
		When WLAN is in Adhoc mode, modify the
		advanced setting of WLAN to Access Point
		only.
		The password mode of the AP is incorrect. In
		this case, change the password
		authentication mode.



Appendix

Table 1 Accessories of iData 90

Component	Description
iData 90	
Standard battery	
Power adapter	Used to charge the battery.
Straps	
Hand strap	
Package	
USB data cable	Used to communicate with the host or charge the iData
	90.
Instructions	
Warranty card	
One-slot USB charging base	Optional
Four-slot battery charger	Optional
Power adapter	Optional

Table 2 Technical specifications of iData 90

Item	Description
System Configuration	
CPU	600 MHz high-performance ARM processor
Operating System	Microsoft® Windows Mobile 6.5
Memory	512 MB ROM+256 MB RAM
Expansion Slot	Mini SD card, up to 32 GB (PSAM card optional)
Display	3.5-inch HVGA (320x480), high brightness TFT LCD, LED backlight
Touch Panel	Resistive touch panel (Industrial-grade capacitive touch panel optional)
Camera (Optional)	5 Mega pixel, autofocus lens, LED flash
Exit Window	Corning [®] Gorilla [®] glass
Keypad	28-key durable industrial keypad with interior transmission light
Battery	3.7 V 4000 mAh rechargeable lithium polymer battery (6000 mAh battery
	optional)
Audio	Built-in microphone
Notification	Vibrator alerts/LED/Audio notification
Vibration Motor	Built-in programmable vibration motor
Operating Environment	
Development Tools	Visual Studio 2005/2008, with Software Development Kit (SDK)
Programming	C++, C#, .NET
Language	
Management Tools	iData Service



O T	40% 4 50%	
Operating Temp.	-10℃ to 50℃	
Storage Temp.	-20℃ to 60℃	
Relative Humidity	0 to 95% (non-condensing)	
Drop Specification	1.5-meter drops to concrete ground	
Tumble Specification	500 0.5-m tumbles (1000 hits)	
Sealing	IP65	
Electrostatic Discharge	Conforms to \pm 15 kV air discharge, \pm 8 kV direct discharge	
Structural Parameters		
Dimensions (LxWxD)	152 mm x 68 mm x 24 mm	
Weight	255 g (standard battery included)	
Communication Transmission		
Wireless Voice	850/ 900/ 1800/ 1900 MHz GSM	
Communication		
Wireless WAN	GPRS/EDGE	
Wireless LAN	Wi-Fi 802.11b/g	
GPS (Optional)	SiRF Star III (with A-GPS) GPS navigation chip available	
Input/Output Ports		
USB Port	1 (Micro USB port)	
Charger Port	1 (DC port)	
RS232 Port	1	
Data Collection Specific	cation	
1D Laser Scanner		
Optical Resolution	≥ 4 mil	
Scan Depth of Field	3.81 cm - 60.98 cm	
Scan Angle	47°± 3° (Standard)	
Scan Speed	102 ± 12 scans/sec. (Bidirectional)	
1D Linear Imager		
Reading Mode	CCD	
Reading Accuracy	≥ 4 mil	
Decoding Speed	300 times/sec. (Max.)	
2D Area Imager		
Optical Resolution	≥ 3 mil	
Scan Angle	Omnidirectional	
Scan Speed	300 scans/sec.	
Infrared Communication	n Module	
Built-in Infrared	Structure with two emitting tubes, meter reading distance of up to 5 meters,	
Communication Module	fully supporting DL/T645 protocol and communication protocols of	
	worldwide mainstream meter manufacturers	
Interface	Initial rate: 1200 bps, supported rates: 1200, 2400, 4800, and 9600 bps	
RFID		
Frequency	13.56 MHz	
Reading Distance	Within 50 mm	
Protocol	ISO14443A/14443B/15693	



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