MaxID

Product User Guide

May 2008

iDL3ID

Regulatory Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. SAR has been evaluated with a Will'tek 4202S Communication Test Set as host and the maximum SAR value reported is 0.342W/kg. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment marketed in USA is restricted by firmware to only operate on 2.4 GHz channels 1-11.

How to Use this Manual

This Product User Guide contains comprehensive user instructions for the iDL3ID, software, docking station, USB cable and data transfer. This section provides an overview of the manual's contents and organisation.

- Document Overview
- Document Conventions
- iDL3ID Keys
- Stylus Actions

Document Overview

This document contains the following material:

- This Preface, "About this Guide" provides an overview of the contents for each chapter and describes document style conventions.
- Chapter 1 – "Getting to know your iDL3ID" provides details on iDL3ID parts, using the iDL3ID, connecting power to the docking station, installing the battery, LED indicators, inserting the battery into the iDL3ID, using the iDL3ID keyboard, charging the iDL3ID on the docking station and switching the iDL3ID on and off. Battery storage, disposal and battery cautions and warnings are also covered.
- Chapter 2 – "iDL3ID Configurations" covers modules and peripherals, customisation of settings, aligning the touch screen, date and time, power configuration, regional settings and storage properties. Use of control panels for adjustment of calibration settings is also covered.
- Chapter 3 – "Networks, Communications and Connections" describes installing, setting up and using Microsoft ActiveSync with your iDL3ID to communicate with the host PC. Setup of wireless communication is also covered.
- Appendix A – "Technical Specifications" provides illustrations, technical environmental, memory, touch screen and detailed specifications for the iDL3ID.
- Appendix B – "Accessories and Peripherals" provides details and offers guidance in using the USB host cable and provide information on the SD memory card.
- Appendix C – "Maintenance, Troubleshooting and Technical Support" describes iDL3ID maintenance, provides a troubleshooting table and makes suggestions on how to contact technical support.
- Appendix D – "Glossary" is a glossary of terms used in this guide that are specific to the iDL3ID and Microsoft Windows®CE.NET.

Document Conventions

Formatting conventions are utilised throughout this manual to provide a consistent method for representing screenshots, command entries and keyboard characters. This manual also provides special conventions for notes and cautions, information of high interest to the user.

Notes contain information necessary for properly diagnosing, repairing and operating the iDL3ID

The CAUTION sign indicates actions that could damage equipment or property.

A WARNING sign indicates actions that could result in personal injury or the injury of other persons.

Document Font styles

`Monospaced typeface:` shows filenames, paths, field selections from a pull-down list and data or keystrokes entered by the user.

Windows Controls including command bar sequences, prompts, dialog boxes, fields, pull-down lists, checkboxes and radio-buttons are printed in this bold typeface.

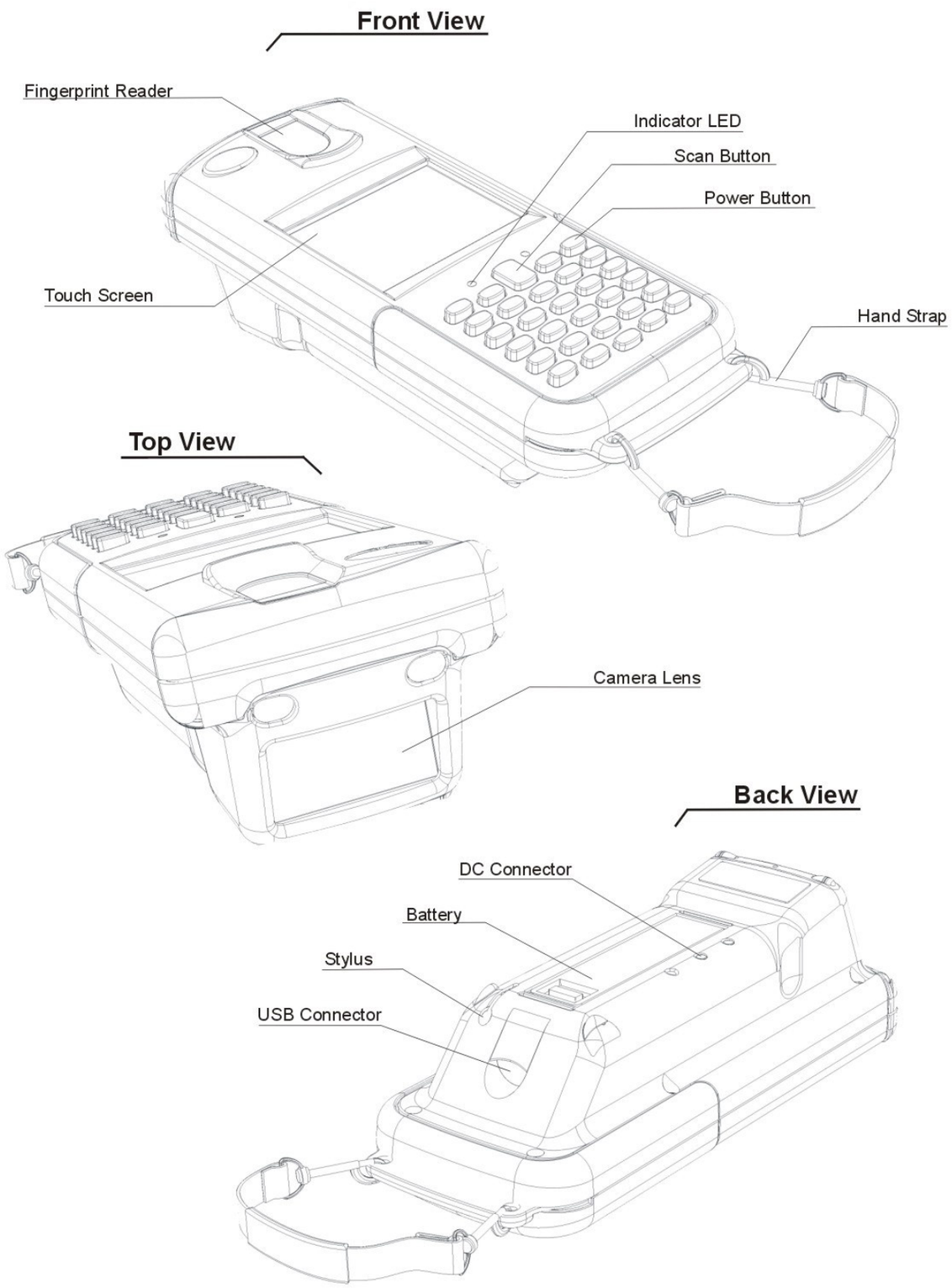
IDL3ID Keys

Keys on the iDL3ID are bracketed in this document by < and > characters to distinguish them from keys on the PC. To differentiate the ENTER key on the iDL3ID from the ENTER key on the PC keyboard, the iDL3ID's keys are bracketed as shown: <ENTER>.

Stylus Actions

The Stylus actions apply to the iDL3ID only.
SINGLE TAP OR SELECT: Tap the display screen once with the stylus to activate a specific button or select an item.
DOUBLE TAP: Tap the stylus twice rapidly in the same location to open an application.
TAP AND HOLD: Tap and hold the stylus to view the context menu (similar results to the 'right-click' action with a PC-mouse).

Parts of the iDL3ID



Using the iDL3ID

The Docking Station

The Docking Station shown above is used to charge an iDL3ID battery and can charge a battery that is inserted in the iDL3ID. The docking station requires a 12V DC power supply in order to operate. This is supplied by the PSU.

Connecting power to the docking station

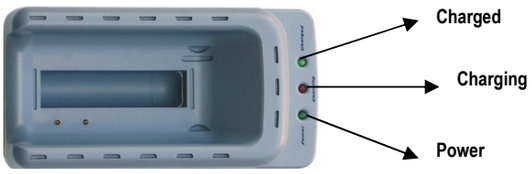
First, the power lead must be connected into the three-prong connector on the PSU. The power lead plug must then be connected to a power source and the power source switched on.
When a green LED is present on the PSU, it should light up to indicate power is present and the PSU is functioning. If the green LED does not light up, please check that the power is properly inserted into the PSU and into the power source and the power source is switched on.
Connect the functional PSU into the docking station by plugging the DC Jack into the connecter marked ***"12V D.C."***
The green LED's marked ***"Power"*** and ***"Charged"*** on the docking station will light up to indicate power is present and that docking station is functional.

Inserting a battery

The iDL3ID is supplied with 4.2V, 2200mAh batteries.
In order to charge a battery it must first be inserted into the slot in the docking station as shown above.

Battery Charging & LED Indicators

The docking station has three LED's. There are two green LED's marked ***"Power"*** & ***"Charged"*** and one red LED marked ***"Charging."***

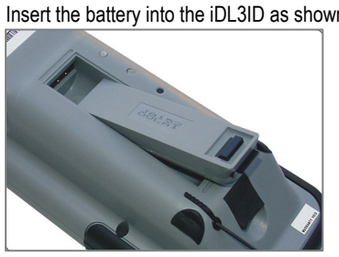


The LED's indicate the following:

- When powered on with no battery inserted the "***Power"*** LED illuminates, the ***"Charging"*** LED turns on briefly and the ***"Charged"*** LED then turns on. The ***"Power"*** LED remains on for as long as power is supplied to the docking station.
- On inserting an uncharged battery into the docking station. The ***"Charged"*** LED switches off and the ***"Charging"*** LED turns on. This indicates that a charge cycle has begun and the inserted battery is being charged.
- When the docking station detects that the charging battery has reached full charge. The ***"Charging"*** LED turns off and the ***"Charged"*** LED turns on, indicating the charge cycle has ended and the battery is now fully charged.
- On inserting a battery that is already fully charged, the ***"Charged"*** LED will remain on to indicate that the battery does not need charging.

Inserting the battery into the iDL3ID

Insert the battery into the iDL3ID as shown below



At all times - Switch off the iDL3ID before removing the battery.

Before using the iDL3ID for the first time, both backup internal and removable external batteries MUST be charged. The initial charging cycle for both batteries is approximately twelve (12) hours. Subsequent charging cycles will take up to a maximum of four and a half hours.
If the battery is removed from the iDL3ID or completely discharged, there is a ten (10) minute window in which to insert a charged battery or charge the discharged battery before the time & date settings are lost and losing current application data.

Use only the correct batteries, PSU and docking station supplied by a MaxID dealer. The use of other equipment can cause permanent damage to the iDL3ID and render the warranty void. For correct supplies contact a MaxID Dealer or visit www.maxidgroup.com

IDL3ID Front Panel

Using the Keyboard

The iDL3ID features a 30-key keyboard. There are three types of keys viz. function keys, alphanumeric keys and navigation keys.

Function Keys

Function keys perform a specific function.

Key		Function
<BK SP> (Backspace)		The function is performed by pressing the <BK SP> key. This moves the cursor back one space and deletes each time the key is pressed. If text is being typed, a character is deleted each time the key is pressed.
<SPACE> (Spacebar)		Pressing the <SPACE> key will insert a blank space character at the position of the cursor in a text field.
<ALPHA>		The <ALPHA> key toggles the keyboard between the keys printed on the left of each button (typically the function keys and numeric keys), and the keys printed on the right of each button (typically the alphabet keys). (When <ALPHA> is pressed once, all characters printed on the right of each key on the keypad will be enabled, including all alphabet characters. When the <ALPHA> key is pressed again, all functions and numbers printed on the left of each key on the keypad will be enabled, including all numeric characters, function keys and navigation keys)
<POWER>		Pressing this key performs the suspend/resume function. This wakes the iDL3ID from suspend mode or puts it the iDL3ID in suspend mode.
<CLR> (Clear)		Pressing the <CLR> key performs the function. This deletes the next character forward each time the key is pressed.
<F1> <F2> <F3> <F4>		These functions keys are customisable in software and used to perform a specific task.
<SYM> (Caps lock)		This key will toggle the alphabet character entry between upper case and lower case.
<☼> (SIP)		Pressing the key will bring up the soft input panel (SIP) on the LCD display. This panel is a virtual QWERTY keyboard and can be used like you would use a computer's keypad to enter alpha numeric and symbols in the currant application
<ENTER>		The <ENTER> key confirms data entry.

Navigation keys

The navigation keys enables one to navigate the cursor.

Key	Function
← 	Moves the cursor one character to the left.
→ 	Moves the cursor one character to the right.
↑ 	Moves the cursor up one row or line.
↓ 	Moves the cursor down one row or line.

Alphanumeric keys

Alphanumeric keys are used to enter alphabets or numeric symbols. Toggle between alphabet and numeric symbols by means of the <ALPHA> key. Toggle alphabet characters between upper case and lower case characters via the <SYM> key. The table below is a guide for entering characters.

<A> <B> <C> <D> <E> <F> <K> <P> <U> <J> <T>		**Special keys with Alphabet characters:** **a b c d e f k p u j t**
</ O>		/ **o**
<1 G>		**1 g**
<2 H>		**2 h**
<3 I>		**3 i**
<4 L>		**4 l**
<5 M>		**5 m**
<6 N>		**6 n**
<7 Q>		**7 q**
<8 R>		**8 r**
<9 S>		**9 s**
<- V>		**- v**
<0 W/X>		**0 w x**
<. Y/Z>		**. y z**

Entering Text

First ensure that the correct field or application has focus. To enter a character or number, toggle between alphabet and numeric symbols by means of the <ALPHA> key. Where more than one alphabet letter is displayed on the key, press the appropriate key one or more times to cycle through the characters until the desired character is selected.

Uppercase Characters (caps lock)

The <SYM> key toggles the caps lock status. Pressing the key changes the status and displays the status on the screen as shown in figure 1-1. When the caps lock status is on, the alphabet characters that are selected will be the upper case of the alphabet.

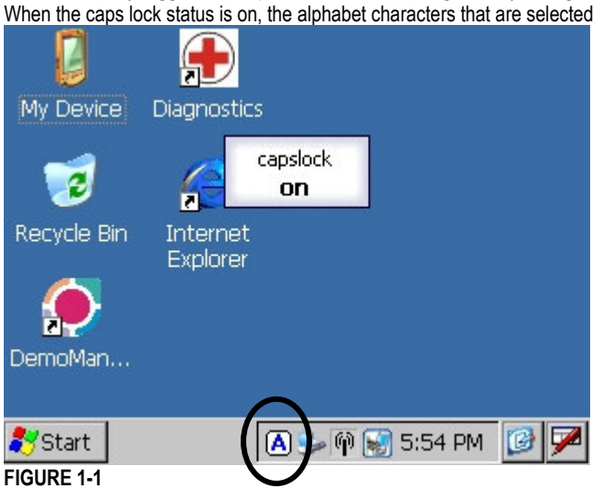


FIGURE 1-1

Switching on the iDL3ID

To switch the iDL3ID on, insert a charged battery into the iDL3ID. Hold the <POWER> key down for two seconds and release. The backlight will turn on briefly and the LED to the right of the <SCAN> key will turn on.

From a complete shutdown state, the iDL3ID takes approximately twelve to eighteen seconds to turn on and an audible beep will be heard.
From a suspend state, the iDL3ID takes less than one second to turn on.

NOTES

When the unit is switched on for the first time or after a complete shut down,
the boot sequence may take approximately 12 – 28 seconds to complete.
The duration of is also depending on the quantity of 3rd party applications loaded on the unit.

Switching off the iDL3ID

To switch the iDL3ID off, hold down the <POWER> key for two to three seconds. This will put the iDL3ID into the default suspend mode.
To power the iDL3ID down completely, hold down the <POWER> key for four to five seconds (as shown in figure 1-2). A menu will then be displayed providing options to Suspend, Power down or Cancel the power down (as shown in figure 1-3). The iDL3ID will create a restore point to save all registry and related installed information when the "Power down" option is selected before shutting the unit down.

NOTES

Note that a complete power down is generally only performed when the
unit will be stored over extensive periods, after applications has been installed,
or when a 'fresh' restart is desired. The default mode of switching off, is the suspend mode.

Resetting off the iDL3ID

To reset the iDL3ID, hold down the <POWER> key for approximately 4-5 seconds (as shown in figure 1-2). Select the "Power down" option from the menu as shown in figure 1-3. The iDL3ID will create a restore point to save all registry and related installed information before shutting the unit down.

The device can also be reset by pressing the <POWER> key and the <CLR> key and the <ENTER> key simultaneously (i.e. all at once) for approximately three to four seconds, until the display is blanked.

When the device is started from a complete shutdown state, the boot-up menu provides various options allowing for the device to be configured in different ways (for example restoring it to its default factory settings). Contact your product/service provider for more detail on the management of the boot-up sequence and options (for example when it is desired to clear the device and restore it to its default factory settings).

FIGURE 1-2

FIGURE 1-3

Charging a battery via the iDL3ID

The iDL3ID and docking station was designed to allow the user to charge a battery that is inserted into the iDL3ID. This can be done by inserting a battery into the iDL3ID and then placing the iDL3ID on a docking station that is powered up as shown in the figure on the left.

When on the docking station, the LED located to the left of <SCAN> key turns on. This indicates that power is supplied to the iDL3ID and that the battery is being charged.

While the iDL3ID is on the docking station, it can be operated as normal.

Never dock the iDL3ID without inserting a battery. The iDL3ID on the docking station without a battery may cause some functional errors.

At all times – Switch off the iDL3ID before docking it for charging purposes.

Charging status is indicated on the iDL3ID by a battery with lightning icon in the system tray.

Customising the iDL3ID

Settings

Sometimes it may be required to change the default setting of the iDL3ID according to personal preferences. The settings can be changed from the control panel. To access the control panel, from the task bar select **Start>Setting>Control Panel.**

Touch screen Settings

When attempting to select a particular item with the stylus and another item is selected in error, then touch screen could need re-aligning.
To align the touch screen select **Stylus** from the control panel.

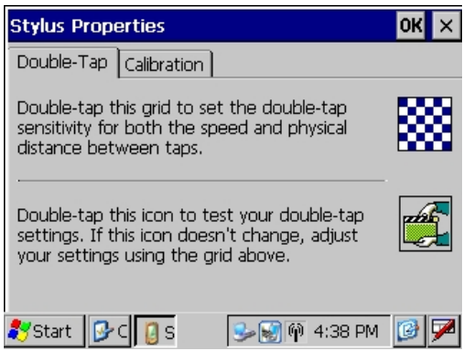


Figure 2-1: STYLUS SCREEN

Next, select the **Calibration** tab.

Figure 2-2: CALIBRATION TAB

Selecting **Recalibrate** starts the recalibration process.

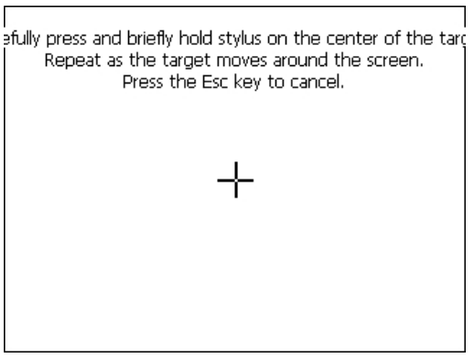


Figure 2-3: ALIGN PROCESS SCREEN

Carefully press and briefly hold the stylus on the centre of the target as it moves around the screen.
The Double-Tap settings can be adjusted by following the instructions on screen on the **Double-Tap** tab.

Select **OK** to exit the **Stylus** settings or press the <ENTER> key on the keyboard.

Date & Time Settings

In Date & Time Setting, the year, month, date, time and time zone can be changed.
To change the Date & Time settings select **Date/Time** from the control panel.

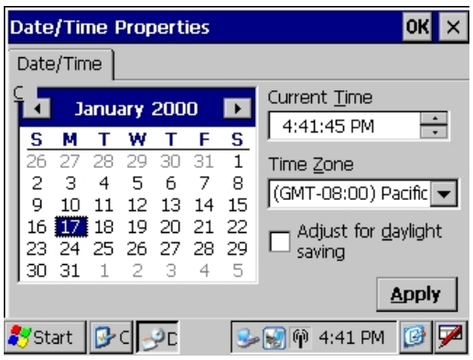


Figure 2-4: DATE/TIME SCREEN

- To change the month, tap on the month to open a list of months and select the desired month.
- To change the year, tap on the month to activate a numeric dial. Select the up arrow to increase the value or the down arrow to decrease the value. A new year value can be entered using the numeric keys on the iDL3ID.
- The months (and years) can be scrolled by tapping the arrow buttons on either side of the displayed month and year.
- To change the time, select the hour, minute, second or AM/PM field and select the up arrow to increase the value or the down arrow to decrease the value. New values can be entered using the numeric keypad on the iDL3ID.
- The correct time zone can be selected form the pull-down list.
- Select **Apply** to save the changes made and/or select **OK** to exit the **Date/Time** settings

Backlight

The backlight timeout can be adjusted to reduce power usage or for convenience. The backlight setting can be adjusted by selecting **Display** from the control panel and then by selecting the **Backlight** tab.

Figure 2-5: BACKLIGHT SETTING SCREEN

Modify the backlight pull-down list settings to suit personal preferences.

Select **OK** to exit the **Display** settings or press the <ENTER> key on the keyboard.

Power

To modify the power management schemes select **Power** from the control panel.

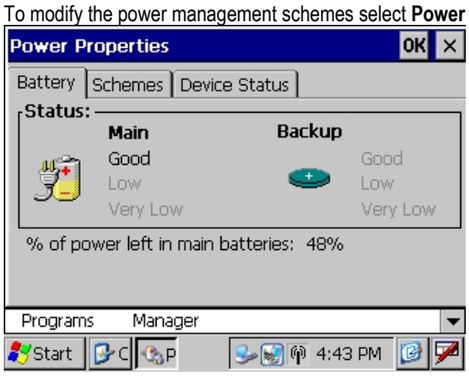


Figure 2-6: BATTERY TAB

The **Battery** tab displays the charge level for the main battery and the backup battery as well as the power source.

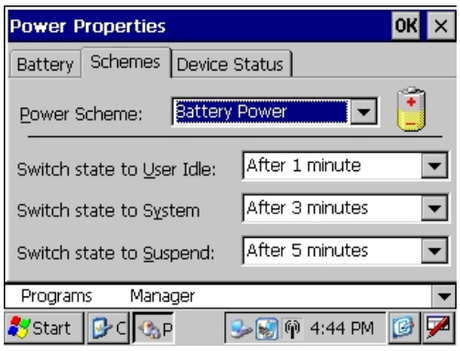


Figure 2-7: SCHEMES TAB

The **Schemes** tab allows one to modify the **User Idle, System Idle** and **Suspend mode** times when using either battery or AC power.

Select **OK** to exit or press the <ENTER> key on the keyboard.

Regional Settings

To change the regional settings, access **Regional Settings** from the control panel.

Figure 2-8: REGIONAL SETTINGS SCREEN

Select the desired language/location.
The appearance samples are shown in the bottom half of the screen. Review these samples and select the tab for any of the setting that needs changing.

Select **OK** to exit or press the <ENTER> key on the keyboard.

Overview

The iDL3ID has a physical USB connection and two wireless communications options viz. Wi-Fi 802.11b and GSM/GPRS. The use of each depends largely on the application and location of the user.
This chapter contains info on setting up and using the communications channels.

USB

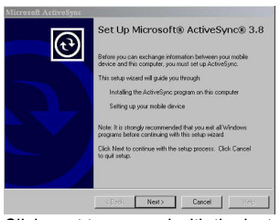
The USB connection allows the iDL3ID to be connected to a Host PC via the USB cable provided so that files can be transferred and synchronised between the Host PC and the iDL3ID. NB. The iDL3ID acts as the USB slave device when connected to a PC as described.

At all times – It is best to switch off the iDL3ID before connecting the USB cable.

Microsoft® ActiveSync

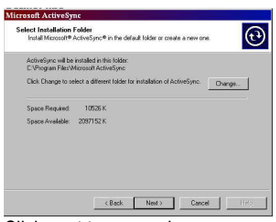
Microsoft® ActiveSync is a tool that enables file transfer and synchronisation. The iDL3ID is delivered with the latest version of ActiveSync loaded. If ActiveSync is already installed on the intended Host PC, please ensure that the version is V3.8 or higher.

To install Microsoft® ActiveSync, the installation files must be downloaded from the Microsoft® website, www.microsoft.com/downloads/.
Install ActiveSync by running the installation file downloaded. After the required files are extracted and copied to the PC the installation wizard will run and the following window will be presented.



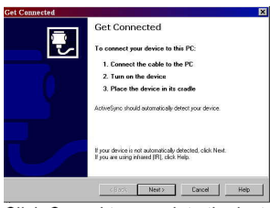
Click next to proceed with the installation.

The next window presented will give one the option of changing the installation folder and displays the hard drive space available and required for the installation.



Click next to proceed.

The installation wizard will install the necessary files and then the following window will be presented.

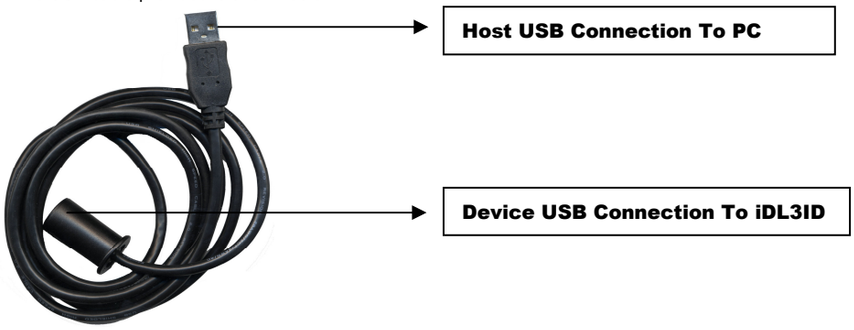


Click Cancel to complete the installation.

iDL3ID USB Drivers

Before connecting to the iDL3ID via ActiveSync the USB drivers for the iDL3ID must be installed on the Host PC first. From the CD ROM (or otherwise as obtained from your product/service provided), copy the files ***wceusbsh.inf*** and ***wceusbsh.sys*** to any convenient folder on the Host PC.

The USB cable provided is shown below.



Connect the cable to the Host PC (ensure that the PC is switch on and user logged in), connect the other end of the cable to the iDL3ID.

Switch the iDL3ID on, the Host PC will then detect the device on the USB port and attempt to install the drivers. If the Hardware Installation Wizard does not find the drivers, then the wizard would prompt to be pointed to the drivers. In this case, point to the files copied above.

After the drivers are installed, Active Sync will automatically detect the iDL3ID

Transferring Files

To transfer files start Microsoft® ActiveSync on the Host PC by selecting **Start>Programs>Microsoft ActiveSync**. An icon will be put into the system tray.

Connect the iDL3ID to the Host PC via the USB Cable and switch the iDL3ID on. ActiveSync will detect the iDL3ID and establish a connection. When a connection is successfully established, the ActiveSync icon in the system tray will turn green like so.

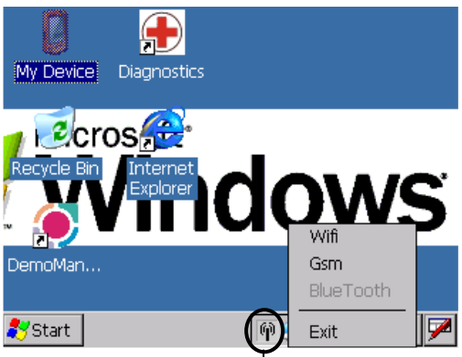
To browse the files and folders on the iDL3ID: on the Host PC, right-click on the green ActiveSync icon and select **Explore.** A window will then be opened showing the files and folder on then iDL3ID. One can now browse the folders, as one would normally do on in **Windows Explorer**. Files can now be copied between the iDL3ID and the Host PC.

To terminate the connection simply disconnect the USB Cable between the two devices.

Networking

Wireless Networking

The iDL3ID is fitted with various wireless communication devices. To improve power management these devices is switched off by default when the iDL3ID is turned on. The wireless devices can be switched on programmatically or can be switched on manually by clicking on the **Connectivity icon** in the system tray.



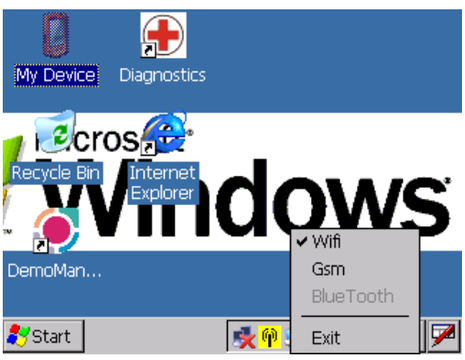
Connectivity Icon

Network ID

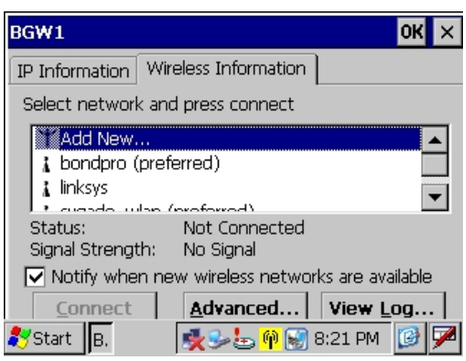
The Network ID can be set-up by going to **Owner** in control panel. Select the **Network ID** tab. Consult with the network administrator and enter the **User Name, Password** and **Domain.**
Select **OK** to save setting and exit.

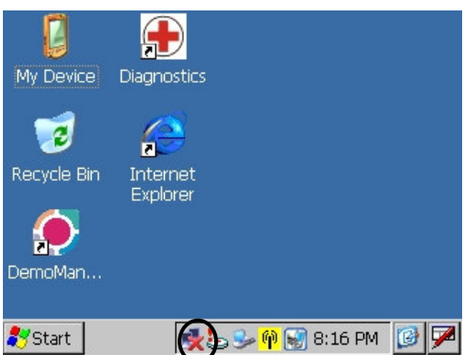
Connecting to an 802.11b Wifi wireless Network

The iDL3ID is fitted with an 802.11b wireless network module. By default, the 802.11b card is disabled. To enable the card, tap the **Wifi** option on the **Connectivity icon**. The card will then be switched on and the **Connectivity icon** will turn to yellow.



The **Wireless Properties** window will open after the Wifi is turned on (if this window is not opened by default, open **Wireless Properties** by tapping the **Network icon** in the system tray). To connect to a network select **Wireless Information** tab and wait a few seconds for available networks to be scanned. A list of available wireless networks will be displayed. Select the desired network and then tap connect.
Select OK to exit the **Wireless Properties** window.



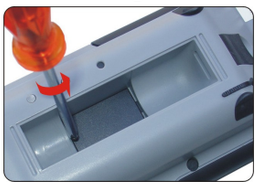


Network Icon

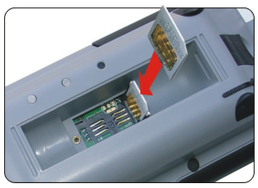
Dial Up

The iDL3ID is fitted with a GSM/GPRS modem with an internal antenna. A dial-up connection can be set up.
Before setting up the dial-up connection a SIM card from a GSM provider must be inserted into the iDL3ID

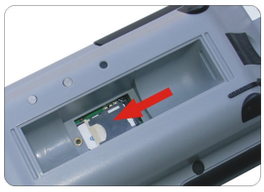
Inserting a SIM Card



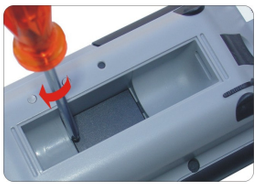
The SIM Card is inserted into a holder that can be accessed from a window located in the battery slot of the iDL3ID. Remove the SIM Cover by loosening the screw and lifting the cover



Lift up the SIM holder and slide the SIM Card into the holder as shown



Close the SIM Holder and slide in the direction shown to secre in postition



Replace SIM Cover and screw in to secure.

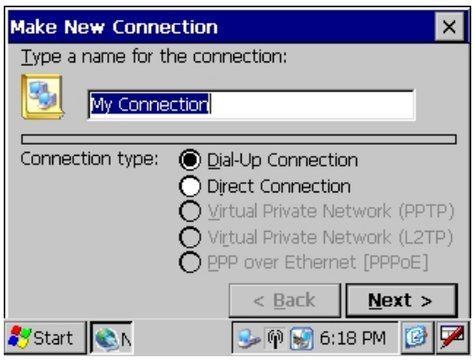
Enabling GSM/GPRS Modem

The GSM/GPRS modem can be enabled or disabled programmatically or manually by clicking on the **Connectivity icon** in the system tray. To enable the modem, tap the **Connectivity icon** and select **GSM**. The GSM Modem will then be switched on and the **Connectivity icon** will turn to green. Tapping the **GSM** option again will disable the modem.

Dial-up Connection

To set up a new dial-up connection, select **Start>Settings>Network and Dial-up Connections**.

Double-tap **Make New Connection**. This will start a wizard that prompts for details regarding the dial-up settings. The first window prompts for a connection name (default is "My Connection") and connection type.

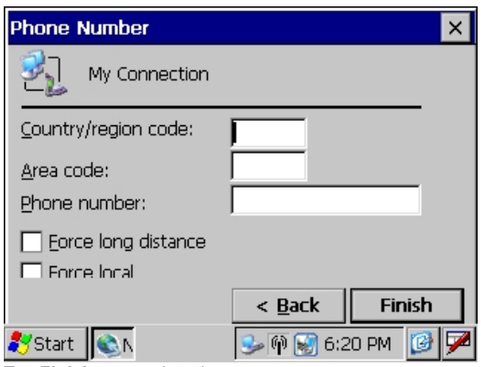


Enter a desired name for the connection in the text box and select **Dial-Up Connection** from the connection type list. Tap **Next** to proceed.
The **Modem** window allows one to choose the modem to use for the dial-up connection.

Select **Motorola Phone (G2x),cdc Port** from the drop down list.
Tap **Configure** to modify the modem communications and call options.
Tap **TCP/IP Settings** to modify the IP Address and name servers.
Tap **Security Settings** to modify the security settings.

Do not adjust any settings above without first consulting the network administrator, GSM provider or Internet Service Provider.

Tap **Next** to continue.
The final window prompts for the **Phone Number**. Contact the GSM Provider or Internet Service Provider for the phone number.

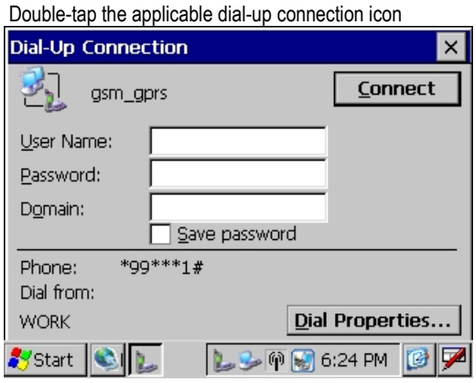


Tap **Finish** to complete the process.

Internet

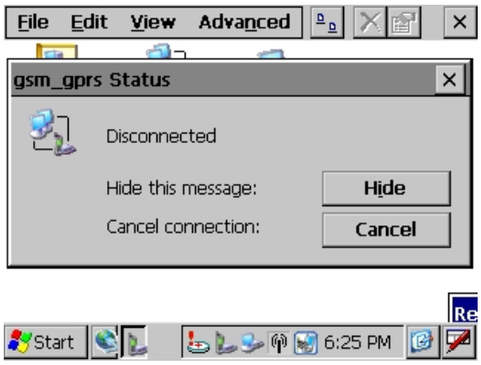
To connect to the Internet, first a SIM card must be inserted into the iDL3ID, the GSM/GPRS modem must be enabled and a Dial-up connection set up, as described above.
To activate the dial-up connection, select **Start>Settings>Network and Dial-up Connections.**

Double-tap the applicable dial-up connection icon



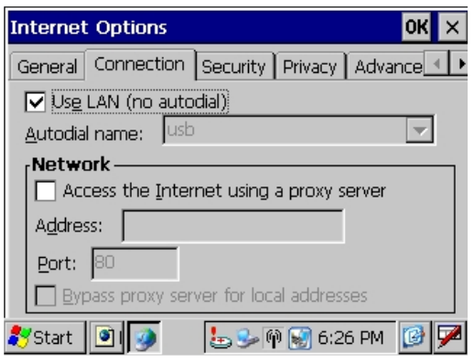
Enter the **User Name, Password** and **Domain**. This info can be obtained from the GSM Provider or the Internet Service provider.

Tap **Connect** to dial and connect.



Tap **Hide** to hide the window after a successful connection.

Open **Internet Explorer**, select **View>Internet Options** from the menu bar,



Select the **Connection** tab and then select the dial-up connection from the drop down list. Tap **OK** to save settings and exit. Enter the website address in the address bar to access websites of choice.

To terminate the connection, double-tap the Dial-up icon on the system tray, then tap **Disconnect.**

Overview

All specifications are subject to change without prior notification.

This section contains the following topics:

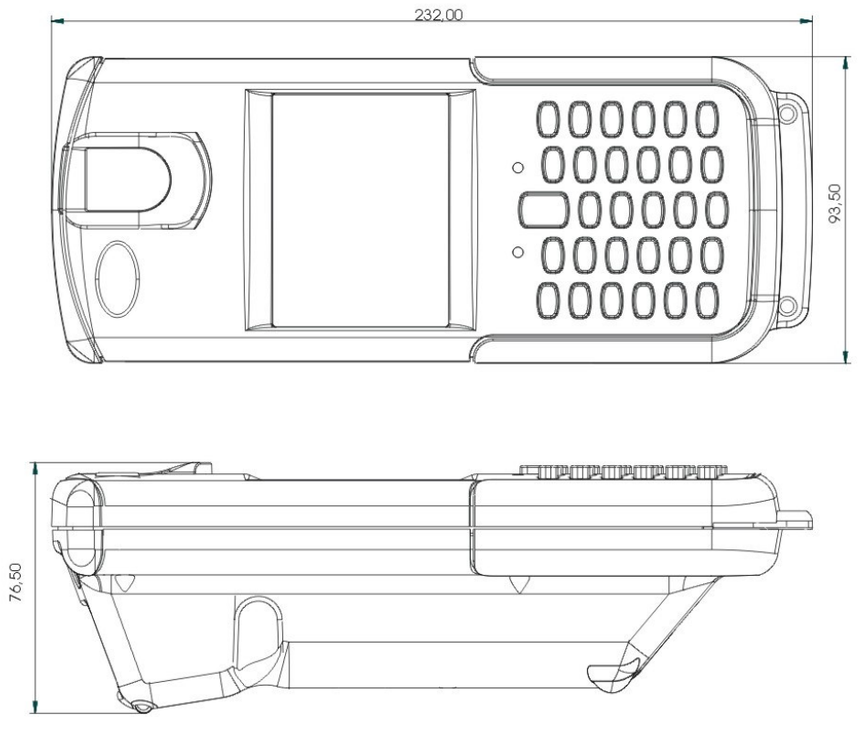
- Barcode Symbologies (Decoding Capabilities)
- Mechanical specifications
- The docking station
- System specifications
- Environmental specifications

Barcode Symbologies (Decoding Capabilities)

All standard 1D and 2D symbologies including (but not limited too):

- EAN
- UPC
- JAN
- Code 39
- Code 93
- Code 128
- PDF417
- Datamatrix
- MaxiCode
- QR Code
- Interleaved 2 of 5
- MSI / Plessey
- Codabar
- Composite Code
- RSS
- Micro PDF
- Aztec Code
- Codablock A
- Codablock F
- Straight 2 of 5
- OCR fonts (A, B and MICR) - optional

Mechanical Specifications

Dimensions	232mm x 93.5mm x 76.5mm
Weight	600g with battery (50g)
Dimensional Illustration	

Docking Station

- Spare battery charging slot
- 2.2AH Lithium Ion battery (4 to 8 hours depending on application and configuration)
- 12V DC input

System Specifications

Display • **Resolution** • **Backlight** • **Screen**	 240 (L) by 320 (W) pixels ¼ VGA White LED Touch screen overlay 180dpi with signature capture capability
Keypad	30 alphanumeric style key buttons
Construction	Industrial, high-strength poly-carbonate/ABS-blend plastic
Operating System	Windows® CE.NET version 5.0
Microprocessor	PXA270 ARM 9 core 520MHz
Memory	1 Giga bytes Flash, combined m-system and nor-flash memory. 128 Mbytes SDRAM.
Communication Ports	External USB 1.1 client interface.
I/O Slots	Mini SD card slot
Audio	Piezo speaker mounted against case
Power Options	2200mAh Lithium-Ion removable/rechargeable external removable battery pack AC adapter with 110-240 Vac, 50-60Hz Internal chargeable Lithium-Polymer backup battery.
Radio Support	Wi-Fi 802.11b/g compatible. GSM / GPRS Modem.
Development Environments	Standard Windows CE development tools Embedded Visual C++, Visual C# dotNET iDL3ID SDK provided
Fingerprint scanner	Integral high-resolution optical fingerprint reader, 500dpi, ESD tolerant Capture, matching and registration software (1:1 and 1: many fingerprint matching)
GPS Module	16 Channel ANTARIS 4 Positioning Engine. -158 dBm Tracking Sensitivity.
1D and 2D Barcode Scanner	Fully integrated and operates in bright or low light conditions. 1D and 2D Barcode imager set to short focal length. Integrated Barcode decryption capability
Mug shot photo Imager	2 Mega pixel colour photo imager. Image preview mode available. Imager set to long focal length. Auto exposure. Integrated LED illumination.

Environmental Specifications

Operating Temperature	0° to 45°C / 32° to 104°F
Storage Temperature	-20° to 80°C / -4° to 176°F
Humidity	5 to 95% (non-condensing)
Shock/Drop	1.2m / 4.0ft drop to concrete
Sealing	IP64 rating

Notes

Overview

This appendix covers the following accessories and peripherals:

- SD Memory Card
- Using USB

Customise your iDL3ID with the many peripherals, data storage devices, battery packs, options and other accessories available.

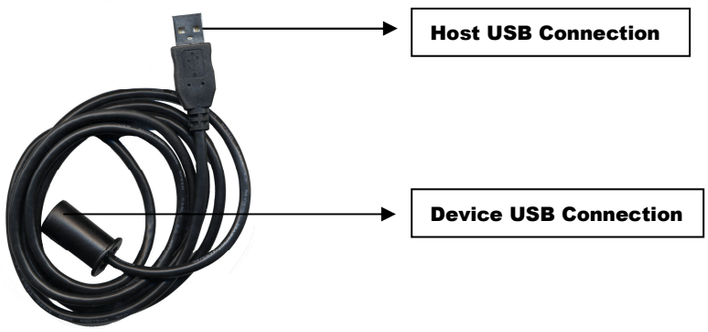
SD Memory Card

Mini Secure Digital memory cards are available in several data storage sizes.

The Mini Secure Digital (SD) card of the iDL3ID, is fully integrated and requires you to make contact with Technical Support for the upgrade/downgrade.

Using the USB

Using a USB cable to synchronise your data transmission with a host, you must install Microsoft ActiveSync v3.8 or higher on the host PC prior to synchronising data.



USB Cable

Overview

This section consists of the following topics:

- "Maintaining the iDL3ID"
- "Troubleshooting"
- "Technical Support"

Maintaining the iDL3ID

With normal use, the iDL3ID, and the docking station require no maintenance. For problem free usage of the product, observe the following suggestions when using the iDL3ID:

- To prolong the life and avoid problems, keep the iDL3ID and its docking station clean. Use a clean, soft cloth dampened with a mild, dilute cleaning agent.
- If the display requires cleaning, do so with a lens cloth or an appropriately soft cloth dampened with a mild, dilute cleaning agent.

Never use a pen, pencil or other sharp object on the iDL3ID's touch-screen. Use only the supplied stylus or plastic-tipped pens intended for use with a touch-sensitive screen.
Do not immerse/submerge the iDL3ID, the docking station or the batteries in liquid.
Do not use abrasive paper/cloth or abrasive/corrosive cleaning agents/solutions to clean the product or its accessories.

Do Not Dispose.
Do Not Recycle.

Technical Support

Partner and Reseller Technical Support

An excellent source for technical assistance and information is an authorised MaxID partner or reseller. A partner/reseller acquainted with specific types of businesses, application software and computer systems and can provide individual assistance.

Authorised MaxID partners furthermore also have access to latest software release, updates and downloads as well as additional technical information.

MaxID Support

The MaxID Group are a manufacturer of specialized mobile technology and have appointed regional distributors and integrators to provide our customers with a local service. In the first instance you should contact your original equipment supplier to obtain support for our products.
However, if you are unable to obtain the required level of support or need help locating a suitable local service provider please use our corporate support contact information below explaining your difficulties.

Tel: +44 (0)1932 895396
Email: marketing@maxidgroup.com

Notes

Many definitions for this Glossary were taken directly from the Microsoft Developer's Network website at: http://msdn.microsoft.com/library/default.asp.

Active notification The state of a user notification from the time the user is notified until the user handles the event.

Active window The window in which a user is currently working or directing input. An active window is typically on top of the Z order and is distinguished by the colour of its title bar.

ActiveSync Microsoft Windows Communication application that synchronises a Windows CE.NET device with a Microsoft Windows based host PC. ActiveSync can use RS-232, USB and Wireless networks.

Calibration A user might require the recalibrating of the touch screen. One way to know that the touch screen needs to be recalibrated is to notice that when you attempt to select an item with the stylus, another item is erroneously selected.

Command bar A control window that can contain buttons, combo boxes and menu bars. Windows CE-based applications can use a command bar rather than a separate menu bar and toolbar to efficiently use available screen space.

Compact Flash (CF) card Compact Flash® is a very small removable mass storage device. CF™ cards are designed with flash technology, a non-volatile storage solution that does not require a battery to retain data indefinitely. CF™ cards consume only 5% of the power required by small disk drives. CF™ cards are available as modems, Ethernet, serial, digital phone cards, scanners, 802.11b WiFi LAN, etc.

Control A standardised part of the window that can be manipulated by the user to perform action or display information. The most common controls are buttons that allow the user to select options and scroll bars that allow the user to move through a document or position text in a window.

Context sensitive help Tap the "?" button to open a help dialog about the specific windows application you are using. Context sensitive help can tell you where you are in a program and can provide assistance with the specific problems you might be having.

Control panel Control panels are several different applets that allow you to configure the iDL3ID to meet your specific requirements. There are control panels for scanning, keyboard, display, etc. Access the control panels at the Start menu: **Start>Settings>Control Panel**.

Device manager A tool to track all loaded device drivers and their interfaces. It issues notification of the appearance and disappearance of device interfaces, loads and tracks drivers by reading and writing registry values and unloads drivers when their devices are no longer required.

Device partnership A registry key on a Windows CE.NET device that a desktop computer uses to identify the device when it is connected. The key defines values for synchronisation, file conversions, backup and restores information, which enable multiple Windows CE.NET devices to connect to the same desktop computer. A device partnership is created the first time you connect a Windows CE.NET device to a host PC.

Embedded Broadly, software code or commands built into a device, as opposed to software that is added. In a narrower sense, code that is typically stored in ROM and described to either controlling a device or providing a specific functionality.

Firmware Operating System of the iDL3ID.

Positioning bar A positioning bar is a tall, thin rectangle with a dark stripe running through it that appears on a rebar or a command band control. By touching and dragging a positioning bar with a stylus, a user can reposition a rebar or command bar. Positioning bars are especially useful for bringing off-screen rebar or command bar controls into view.

Host PC system PC using the Microsoft Windows operating system and/or ActiveSync in a device partnership with the iDL3ID.

Input method (IM) A component that allows the user to input text using a touch screen.

Input panel Refer to soft input panel (SIP)

Mounted file system A file system located on a removable medium, such as a PC Card storage device. The operating system loads or mounts the file system when the medium is inserted into the device. It unloads or un-mounts the file system when the medium is removed or when the user issues a command to do so.

Navigation key	These a 4 separate buttons on the keypad with directional arrows pointing up, down, left and right that allows the user to move the cursor or highlighted text entry during menu selection. Press and release the key to move the display screen one line or character in the direction of the arrow.
Object store	The persistent storage that Windows CE makes available to applications. For example, Windows CE reserves part of its available RAM for the operating system and uses the rest for the object store. This data can be stored in files, registry entries or Windows CE databases.
PING	Protocol that sends a message to another computer and waits for acknowledgement, often used to check if another computer on a network is reachable.
Program memory	Memory that is used for stack and heap storage for both system and non-system applications. Non-system applications are taken from storage memory, uncompressed and loaded into program memory for execution.
WiFi	A device installed into the iDL3ID that allows wireless connection and communication with a network.
RAM (random access memory)	You can add applications and data files to RAM or into Flash memory via the DiskOnChip. While flash memory is persistent (as long as the backup is charged), RAM is not and will be cleared when you remove or replace the battery. As you can only suspend the device, the only way to turn it fully off is to remove the battery or to perform a hard reset.
ROM (read only memory)	The operating system (Windows CE.NET) and applications are pre-installed on ROM and cannot be removed or modified. These applications are persistent.
RAS (remote access server)	A feature that connects a device to a host computer. Windows CE can connect to a remote access server using USB and dial-up connections. Windows CE supports the standard Microsoft Win32 RAS functions; however, it allows only one connection at a time. RAS functions can be implemented for direct USB connections or dial-up modem connections.
RTC	Real Time Clock on the iDL3ID.
Secure Digital (SD) Memory Card	SD Memory Cards are small, non-volatile, solid-state devices that provide high storage capacity (32 MB, 64 MB, 128 MB and 256 MB), fast data transfer and security.
Shortcut menu	A menu that is displayed for a selected object. The menu contains commands that are contextually relevant to the selection.
SNMP (Simple Network Management Protocol)	SNMP is the standard protocol for managing devices on a network. SNMP is standardised protocol for network management services using a client/server model. The network management program (client) issues queries and commands to the remote device.
Soft input panel (SIP)	Click on the **keyboard** icon in the system tray to open the **SIP**. Use this virtual QWERTY keyboard like you would a computer's keypad to enter alpha numeric and symbols in the currant application.
SSID	The SSID (Service set identifier) is a network name; it is a name that identifies a wireless network. The SSID differentiates one WLAN from another; so all access points and all devices attempting to connect to a specific WLAN must use the same SSID. Devices must provide a unique SSID. Because an SSID can be sniffed in plain text from a packet it does not supply any security to the network.
Start button	The start button opens the Start menu. The Start menu contains a list of the resident applications, applets and utilities viable to the user.
Status bar	An area that displays state information for the content in the window, typically placed at the bottom of a window.
Status icons	A graphic representation of the status of a feature or function.
Stylus	The stylus is the equivalent of a mouse on the iDL3ID. Use the stylus on a touch-sensitive display. Only a plastic tipped stylus should be used on a touch-sensitive display. Use the stylus to navigate by selecting characters in the soft input panel (SIP). Select applications from the desktop or system tray, select tabs, fields and text within applications and dialog boxes.
Suspend mode	The iDL3ID will go into a 'suspend' or 'sleep' mode when it is idle for a configurable period of time. Suspend mode works and looks like you have turned the unit off. Press the <Power> key to suspend (put to sleep) the iDL3ID. Press the <Power> key again for the iDL3ID to resume its previous state.

Symbology	A symbology is a protocol for arranging the bars and spaces that make up a particular kind of barcode. A bar code is made up of numbers, letters and computer recognised characters that can be represented in a combination of bars and spaces. There is not one standard bar code; there are currently over 400 barcode symbologies that serve different uses, industries or geographic needs.
System tray	An area of the display screen located at the bottom, within the Task bar that displays status icons and symbols.
System tray keyboard Indicators	The System Tray Keyboard Indicators are located at the bottom of the display in the taskbar and contain status icons and symbols indicating open features and active applets.
Task bar	The Task bar at the bottom of the screen displays the start button icon, an icon for the active program, an icon for the current time and system icons for utilities loaded in memory, including the keyboard icon, which opens and closes the soft input panel (SIP).
Touchscreen display	A graphical computer interface display screen that allows the user to enter and select items with a **stylus**.
Uniform Resource Locator (URL)	The address of a resource on the Internet. URL syntax is in the form *protocol://host/localinfo*, where *protocol* specifies the means of returning the object, such as HTTP or FTP. *Host* specifies the remote location where the object resides and *localinfo* is a string, often a file name, passed to the protocol handler at the remote location. *Also called* a Uniform resource Identifier.
USB	Universal Serial Bus is a protocol for connecting PCs with peripheral devices, including PDTs, PDAs, cameras, printers, mice, scanners, etc.
WEP	Short for Wired Equivalent Privacy, a security protocol for wireless local area networks (WLANs) defined in the 802.11b standard. WEP is designed to provide the same level of security as that of a wired LAN. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.
Windows CE.NET	As per Microsoft, Windows CE.NET, the successor to Windows CE 3.0, combines an advanced real-time embedded operating system with the most powerful tools for rapidly creating the next generation of smart, connected and small-footprint devices.