Datalogic Memor™

Mobile Computer

User's Manual

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All other brand and product names may be trademarks of their respective owners.

Patents

This product is covered by one or more of the following patents.

Design Pat. Nos: EP 469,143; EP 1,582,024; AU 310182 S; CN 658612; HK 0601962.6; KR 30-0466667; JP1325117; TW D118829; US D574,830 S.
US Pat. Nos: 5,992,740; 6,808,114 B1; 6,997,385 B2; 7,387,246 B2.
European Pat. Nos: 681,257 B1; 789,315 B1; 1,128,315 B1; 1,396,811 B1; 1,413,971 B1.

Additional patents pending.

CONTENTS

REFERENCES

CONVENTIONS

This manual uses the following conventions:

“User” refers to anyone using a Datalogic Memor mobile computer.
“Mobile computer” and "Datalogic Memor" refer to Datalogic Memor mobile computer.
“You” refers to the System Administrator or Technical Support person using this manual to install, configure, operate, maintain or troubleshoot a Datalogic Memor mobile computer.
“Single Dock” refers to the Datalogic Memor Single Slot Dock.
The label artworks may be only a draft. Refer to the product labels for more precise information.

REFERENCE DOCUMENTATION

For further information regarding Datalogic Memor refer to the SDK Help on-Line.

SERVICES AND SUPPORT

Datalogic provides several services as well as technical support through its website. Please check our website at www.datalogic.com under “Support & Services”, then “Automatic Data Capture”, and click on the links indicated for further information including:

- **Downloads**
  - **Manuals** for the latest versions of user manuals and product guides.
  - **Software & Utilities** for the latest firmware release for your product. You can also click on the following link for direct access to this section: www.datalogic.com/products_updates.
- **Service Program** for warranty extensions and maintenance agreements.
- **Repair Centers** for a list of authorised repair centers.
- **Technical Support Automatic Data Capture** email form to contact our technical support.

GENERAL VIEW

A) QVGA 64K Color Display
B) Good Read or User Programmable LED
C) Charging Status LED
D) Speaker
E) Scan Key
F) Keyboard
G) Microphone
H) Strap with Stylus Holder
I) Laser Safety Label
J) Rear Speaker
K) ON/OFF Power Key
L) Product Label (under battery)
M) Battery Cover

N) Data Capture Window*

O) DC Charger Connector

P) Communication/Charger Connector (through cradle)

Q) Mini USB Communication Connector (through cable)

* Remove protective film cover before use

1 INTRODUCTION

1.1 DATALOGIC MEMOR DESCRIPTION

The Datalogic Memor mobile computer maximizes a compact and light weight form factor for ease of use and shirt pocket convenience without compromising durability. Datalogic Memor features target applications found in field force automation, retail stores, manufacturing and warehouses.

The computer architecture of the Datalogic Memor starts with the industry leading XScale™ PXA310 microprocessor. Geared for computing requirements of real time information management and communication. Memory of 128 MB RAM / 256 MB Flash is sized for running multiple simultaneous applications, for managing large databases or the use of thick applications when off-line autonomy is required. The memory storage capacity can be increased through the user accessible Micro SD Card Slot.

Microsoft Windows Mobile 6.1 reduces training requirements through common Windows' interfaces and tools including Outlook, Word Mobile, Excel Mobile, PowerPoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0. A software development kit (SDK) aids in creating applications for both of these powerful Windows operating systems and alternative environments like Java Virtual Machine.

Datalogic Memor provides voice and data wireless communication options to meet the business need. A speaker and microphone equip the Datalogic Memor to handle – VoIP phone calls or push-to-talk conversations. The Summit IEEE 802.11 abg radio's optimized transmit power and receiver sensitivity result in superior range with a tailored user interface for easy configuration and consistent management. Complimented by a CCX v4 security certification from Cisco, the Datalogic Memor provides infrastructure compatibility focused on enterprise requirements for encrypted communication and seamless roaming. Client side applications leverage internet protocol connections for hands-free voice picking and push to talk communications. Bluetooth® Wireless Technology connects headsets, printers and other peripherals while eliminating cumbersome wires and costly replacement of broken or damaged cables.

Two scanner options optimize the Datalogic Memor for the application needs. A laser scanner tackles intensive applications where speed and a wide depth of field are essential. Datalogic's patented Green Spot good read feedback makes Datalogic Memor's laser scanner intuitive while reducing errors. The 2D scan engine option leverages picture technology to capture a wide range of Linear, Stacked, and 2D codes while also providing the flexibility to capture a signatures or drivers license. Digital image decoding software reduces failed reads due to damaged and poor quality barcodes while enabling the user to scan from almost any orientation.

Durability ratings protect the computing investment against accidental drops and occasional exposure to liquids and dust. A touch color display provides an easy to read interface in a wide range of lighting conditions. The phone keyboard layout and four direction joystick increase associate efficiency. Push button battery lock provides an easy to locking mechanism for quick, no hassle battery exchanges. Rechargeable Lithium polymer batteries in two sizes customize capacity to the application. Charging cradles include a communication cradles for RS232 and USB. A powered vehicle dock and power adapter cable extend charging capabilities onto the road.

Powered by Wavelink® device maintenance and management tools makes the Datalogic Memor a simple device to both deploy and maintain. Datalogic Firmware, Desktop and Configuration Utilities complete the package with unprecedented ability to customize device configuration to the use environment or process. Combined these tools streamline deployment and management activities while providing developer tools to further customize units for specific applications.

1.2 AVAILABLE MODELS

The Datalogic Memor is available in different models depending on the options it is equipped with. All options are listed below:

- communication options: 802.11 abg radio, Bluetooth®
- data capture options: laser, imager
- operating system: Windows CE 5.0, Windows Mobile 6.1

For further details about the Datalogic Memor models refer to the web site: http://www.datalogic.com.

For further information regarding Windows CE refer to the website: http://www.microsoft.com/windowsembedded.

The currently available models are:

- 944201016 DL-Memor+Batch+1DGS+CE5
  Datalogic Memor, Batch, 128MB RAM/256MB Flash, 23-key Numeric, Std Laser with Green Spot, CE 5.0

- 944201038 DL-Memor+802.11+BT+1DGS+CE5
  Datalogic Memor, 802.11 abg CCX V4, Bluetooth, 128MB RAM/256MB Flash, 23- key Numeric, Std Laser with Green Spot, CE 5.0

- 944201039 DL-Memor+802.11+BT+2D+CE5
  Datalogic Memor, 802.11 abg CCX V4, Bluetooth, 128MB RAM/256MB Flash, 23- key Numeric, Std 2D Imager, CE 5.0

- 944201040 DL-Memor+802.11+BT+1DGS+WM6.1
  Datalogic Memor, 802.11 abg CCX V4, Bluetooth, 128MB RAM/256MB Flash, 23-key Numeric, Std Laser with Green Spot, WM 6.1

- 944201041 DL-Memor+802.11+BT+2D+WM6.1
  Datalogic Memor, 802.11 abg CCX V4, Bluetooth, 128MB RAM/256MB Flash, 23-key Numeric, Std 2D Imager, WM 6.1

1.3 PACKAGE CONTENTS

The Datalogic Memor package contains:

- 1 Datalogic Memor mobile computer
- 1 AC/DC power supply
- 1 EU plug adapter
- 1 UK Plug Adapter
- 1 standard Mini USB cable
- 1 extensible stylus
- 1 rechargeable standard battery pack + cover
- 1 hand-strap with stylus holder
- 1 Quick Start Guide
- 1 Safety and Regulatory Addendum
- 1 Wavelink Avalanche Insert
- 1 End User License Agreement (EULA) Sheet

Any other packages will contain the accessories necessary for the Datalogic Memor connection to the host computer and to the network: the cradle, one or more connection cables.

Remove all the components from their packaging; check their integrity and compare them with the packing documents.

CAUTION

Keep the original packaging for use when sending products to the technical assistance center. Damage caused by improper packaging is not covered under the warranty.

NOTE

Rechargeable battery packs are not initially fully charged. Therefore the first operation to perform is to charge them. See section 2.1.

1.4 INSERTING A MICROSD CARD

The Datalogic Memor supports microSD memory cards. To access the microSD card slot and insert the card, proceed as follows:

1. Turn off the Datalogic Memor.

2. Press the latch release button and pull the latch down:

3. Remove the cover and the battery pack, then open the microSD card slot by pulling up the locking plate:

4. Shift the cardholder to the left and then pull it up; insert the microSD card with the written part upward:

5. Lock the card into place by pushing the cardholder down and then shifting it to the right; pull the locking plate down:

6. Close the battery cover properly, by pressing the latch release button and pulling the latch down.

1.4.1 Removing the MicroSD Card

To remove the microSD card, follow the steps above to access the SD area, and remove it from its slot.

CAUTION

Follow proper ESD precautions to avoid damaging the microprocessors in the Datalogic Memor or the microSD card itself.

Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

Do not force the card. If you feel resistance, remove the card, check the orientation, and reinsert it.

Do not use the microSD card slot for any other accessories.

1.5 ACCESSORIES

- **Cradles**

  94A151111 DL-Memor Single Cradle w Aux. Slot
  94A151121 Dock Memor Vehicle w Power Adapter
  94A151122 DL-Memor Single Ethernet-Usb_Host Cradle
  94A151123 DL-Memor Multi Battery Charger

- **Batteries**

  94ACC1367 DL-Memor Large Capacity Battery CVR2
  94ACC1368 DL-Memor Standard Battery CVR2

- **Power Supply**

  94ACC1324 PG5-30P35 AC/DC Power Supply EU/USA Plug
  94ACC1334 PG5-30P35 AUS. Plug Adapter (10pcs)
  94ACC1335 PG5-30P35 UK Plug Adapter (10pcs)
  94ACC1339 PG5-30P35 EU. Plug Adapter (10pcs)
  94ACC1369 DL-Memor Alkaline Adapter CVR2

- **Cables**

  94A051016 CAB-421 USB Type A-B-Mini Straight
  94A051022 WIN-NET Serial CAB (HRS ST40x-18S-CV)
  94A051024 USB A (4 pin F) to Mini A (5 pin M)
  94A051966 Cable Memor 12 TO 24 V Power Adapter

- **Various**

  94ACC1328 DL-Memor Stylus Pen (10pcs)
  94ACC1365 Headset Memor
  94ACC1366 Softcase Memor w/Swivel

NOTE

Use only a Datalogic approved power supply and cables. Use of an alternative power supply will invalidate any approval given to this device and may be dangerous.

2 BATTERIES AND MAINTENANCE

NOTE

Rechargeable backup batteries and battery packs are not initially fully charged. Therefore the initial operation to perform is to charge them. See below.

CAUTION

Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.

2.1 CHARGING THE BATTERY PACK

NOTE

The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc.

The battery icon on the Taskbar indicates when the battery pack is low.

It is possible to recharge the battery pack by connecting the power supply directly to the Datalogic Memor.

Alternatively, it is also possible to recharge the battery pack by inserting the Datalogic Memor into the single slot dock or the multi battery charger.

Moreover recharging is possible by USB Direct connection with the host computer, but with longer charging times and only if the mobile computer off.

During the charging process the LED positioned at the right side of the display is red constant. Once the charging process has been completed this LED is green constant (see par. 4.4).

The stand alone battery pack may be recharged outside a Datalogic Memor using the spare battery charging slot on the back of the single slot dock or the multi battery charger.

CAUTION

Do not use the Datalogic Memor until batteries are charged for minimum 4 hours.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

CAUTION

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteris usagées confor mément aux instructions.

NOTE

Even if the storage temperature range is wider, in order to achieve the longest battery life, store the terminal and the spare batteries between 20 to 30º C (68 to 86º F).

The Datalogic Memor (including spare battery) should be charged at an ambient temperature between 0° to +40 °C (+32° to +104 °F) to achieve the maximum charging rate. Never charge the main device or spare batteries in a closed space where excessive heat can build up.

NOTE

The battery level may display incorrectly for several minutes after the Datalogic Memor is disconnected from its charger if the charging cycle is not completed.

NOTE

The Datalogic Memor may get warm during charging; this is normal and does not mean a malfunction.

NOTE

Use only a USB-IF compliant USB port as a charging source.

2.2 REPLACING THE BATTERY PACK

To correctly replace the battery pack, proceed as follows.

1. Turn off the Datalogic Memor.
2. Press the latch release button and pull the battery latch down :

3. Remove the cover and the battery pack.

4. Install the new battery pack, first insert the bottom (contacts) side, then the upper side:

5. Press the latch release button and pull the battery latch down to reinsert the cover

WARNING

Installing, charging and/or any other action should be done by authorized personnel and following this manual.

The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions.

If the battery pack is replaced with an improper type, there is risk of explosion and/or fire.

Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.

Use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.

The area in which the units are charged should be clear of debris and combustible materials or chemicals.

Do not use the battery pack of this terminal to power devices other than this mobile computer.

WARNING

Immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, or appears abnormal in any other way.

Do not short-circuit the battery pack contacts connecting the positive terminal and negative terminal. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental short–circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short–circuiting the terminals may damage the battery pack or the connecting object.

Do not apply voltages to the battery pack contacts.

Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.

Do not disassemble or modify (i.e. bend, crush or deform) 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.

In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor.

Do not solder directly onto the battery pack.

Do not expose the battery pack to liquids.

Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it.

Do not replace the battery pack when the device is turned on.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

Collect and recycle waste batteries separately from the device in compliance with European Directive 2006/66/EC, 2011/65, 2002/96/EC and subsequent modifications, with US and China regulatory laws and regulations about the environment.

NOTE

In order to maximize operating autonomy, the Datalogic Memor checks its battery level at all times. If the battery is not sufficiently charged, the Datalogic Memor will not turn on when the ON/OFF Power button is pressed.

In this case, either substitute a sufficiently charged battery, insert the Datalogic Memor into a powered cradle, or plug it into a wall charger.

NOTE

To maximize battery life, turn off radios when they are not needed.

2.3 CLEANING THE MOBILE COMPUTER

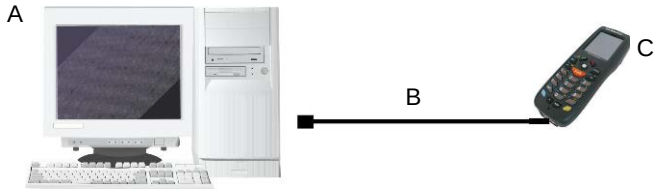
Periodically clean the Datalogic Memor with a slightly dampened cloth.

Do not use alcohol, corrosive products or solvents.

3 CONNECTIONS

3.1 USB CONNECTION

You can use any standard mini USB cable to directly connect the Datalogic Memor to a host computer to transfer data through the USB interface.



Key:

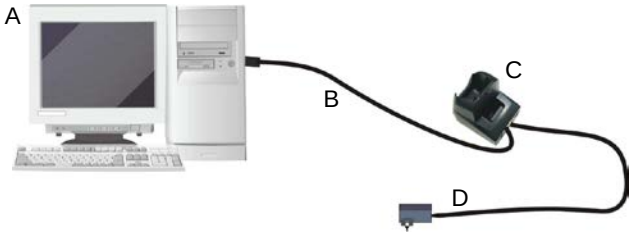
A	Host computer	C	Datalogic Memor
B	Standard Mini USB cable		

NOTE

Connection through the cable is compliant to 2.0 USB standard.

The Single Dock can be connected to the host computer by any standard mini USB cable.

Once the host computer has been turned on, insert the Datalogic Memor mobile computer into the cradle.



Key:

A	Host computer	C	Single Slot Dock
B	Standard Mini USB cable	D	Power Supply (only necessary for battery charging†)

NOTE

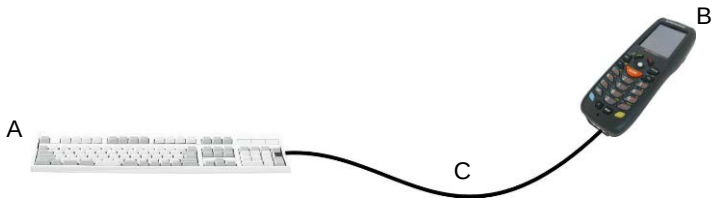
Connection through the cradle complies to USB 1.1 standard.

NOTE

The actual data transfer speed can be appreciably lower than the maximum theoretical speed.

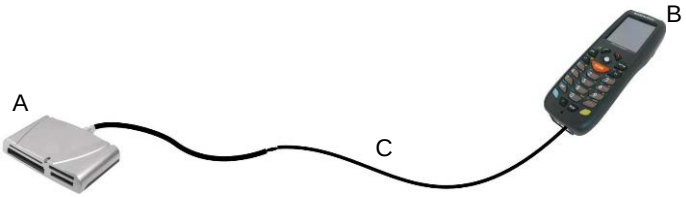
3.2 CONNECTION TO USB PERIPHERALS

You can connect the Datalogic Memor to a standard 101-key USB keyboard or to a standard USB flash memory device. Connect the terminal to a standard A (4 pin female) to mini A (5 pin male) USB cable. For all these devices maximum current draw must be less than 100mA.



Key:

A	Keyboard with USB interface	C	94A051024 (Standard A to Mini A USB cable)
B	Datalogic Memor		



Key:

A	USB hard drive/ external memory source	C	94A051024 (Standard A to Mini A USB cable)
B	Datalogic Memor		

NOTE

Connect first the USB peripheral to the cable, and then the cable to the Datalogic Memor.

NOTE

Datalogic Memor works with most of the mentioned USB peripherals. Datalogic cannot guarantee the interoperability of Datalogic Memor with all devices on the market.

NOTE

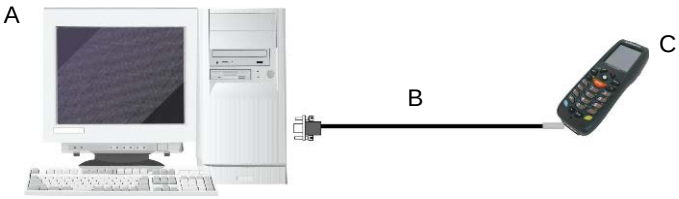
Connection is compliant to USB 1.1 standard.

NOTE

The actual data transfer speed can be appreciably lower than the maximum theoretical speed.

3.3 RS232 CONNECTION

You can use a cable to directly connect the Datalogic Memor to a host computer to transfer data through the RS232 interface:

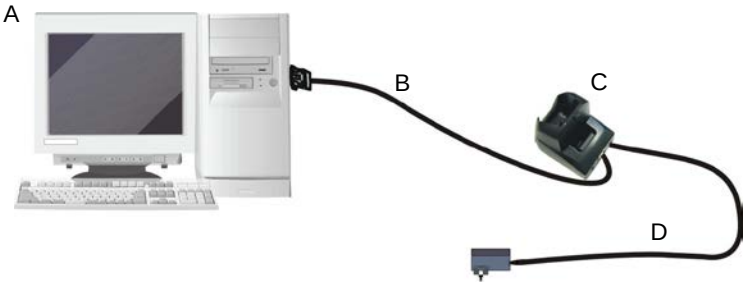


Key:

A	Host computer	C	Datalogic Memor
B	94A051022 WIN-NET (HRS ST40X-18S-CV)		

The Single Slot Dock can be connected to the Host by means of a standard null modem cable such as Datalogic 94A051020 CAB-427 for 9-pin connections.

Once the host computer has been turned on, insert the Datalogic Memor mobile computer into the dock.



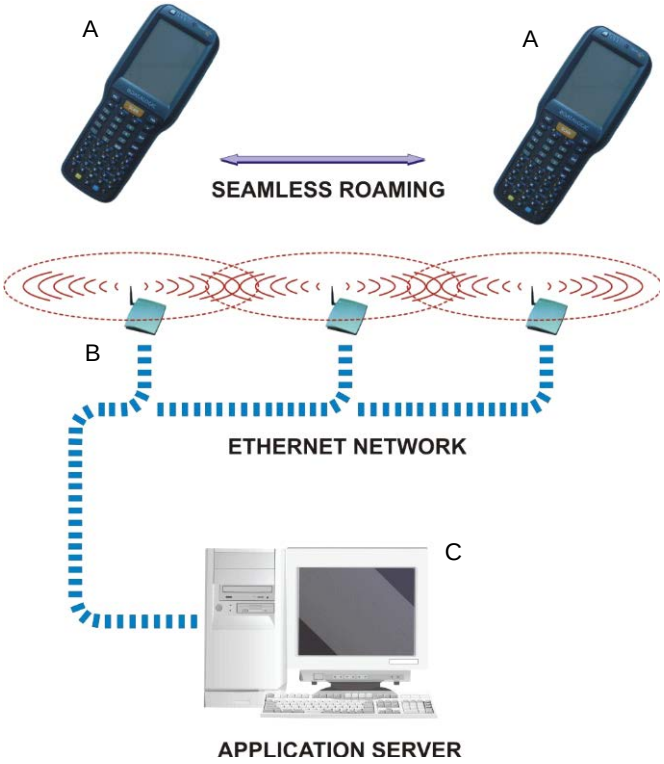
Key:

A	Host Computer	C	Single Slot Dock
B	94A051020 CAB-427 RS232 Null Modem Cable	D	Power Supply (only necessary for battery charging)*

*In this case the power supply is only necessary for battery charging. Insert the power supply plug into the power jack on the base of the cradle and attach the power supply to a power outlet.

3.4 WLAN CONNECTION

The Datalogic Memor 802.11 abg radio models can communicate with the host using the on-board Wi-Fi radio and an Access Point connected to a network.



Key:

A) Datalogic Memor

B) Access point

C) Host – Application Server

NOTE

802.11 abg radio module is on by default. In order to avoid wasting energy, you can switch it off using the Wireless Communications tab.

NOTE

Suspending the terminal powers off the 802.11 a/b/g radio and drops the radio connection. When the terminal resumes, depending on the radio power mode and security protocol selected, it may take up to 30 seconds for the 802.11 a/b/g radio driver to re-associate the radio to the network.

NOTE

Area coverage and radio performance may vary, due to environmental conditions, access points types or interference caused by other devices (microwave ovens, radio transmitters, etc.).

NOTE

In case of heavy usage the Datalogic Memor may get warm; this is normal and does not mean a malfunction.

3.5 WPAN CONNECTIONS

The Datalogic Memor Bluetooth® models can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.

Key:

A) Datalogic Memor

B) Bluetooth® printer

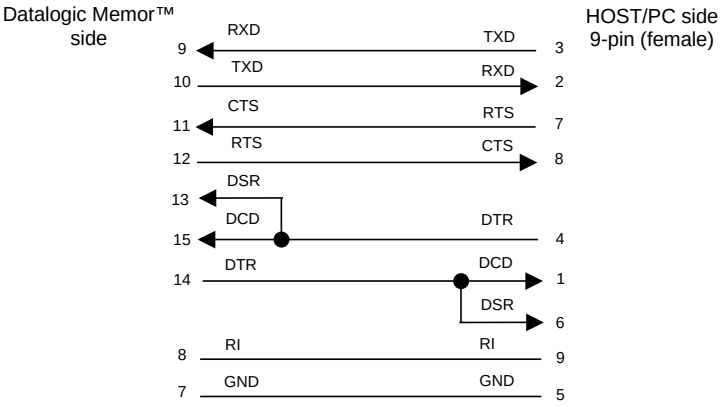
NOTE *In order to extend battery life, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on using the Wireless Communications tab (see par. 4.5.4), and perform the Discovery procedure (see par. 4.6.2).*

NOTE *Suspending the terminal powers off the Bluetooth® radio and drops the piconet (Bluetooth® connection). When the terminal resumes, it takes approximately 10 seconds for the Bluetooth® radio driver to re-initialize the radio.*

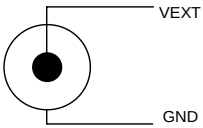
NOTE *Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.).*

3.6 CONNECTION CABLES

❑ **RS232 Direct Connection:**
94A051022 WIN-NET SERIAL CAB (HRS ST40x-18S-CV)



❑ **Power Supply Polarity:**



3.7 WIRELESS AND RADIO FREQUENCIES WARNINGS

WARNING

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the product and may violate laws and regulations.

WARNING

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Datalogic Memor.

WARNING

Datalogic recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile phones.

Persons with pacemakers:

- *Should ALWAYS keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;*
- *Should not carry this device in a breast pocket;*
- *Should keep the device at the opposite side of the pacemaker and/or any other medical device;*
- *Should turn this device OFF or move it immediately AWAY if there is any reason to suspect that interference is taking place.*
- *Should ALWAYS read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.*

In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor.

WARNING

Turn this device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.

WARNING

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

WARNING

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result.

WARNING

Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or fuel distribution areas, chemical plants or where any operation involves use of explosive materials.

Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked or shown.

Sparks in such areas could cause an explosion or fire, resulting in injury or even death.

WARNING

To safely disable the radio modules (WiFi/BT) do not power off the mobile computer, but use the Wireless Communications tab (see par.4.5.4).

4 USE AND FUNCTIONING

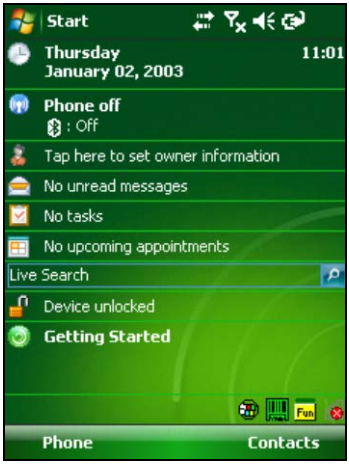
The use of the Datalogic Memor depends on the application software loaded. However there are several parameters that can be set and utilities that can be used to perform some basic functions such as data capture, communications, file management, etc

4.1 STARTUP

The Datalogic Memor turns on when the battery pack or the external supply is inserted.

After the battery pack is installed, use the [ON/OFF] key to turn the mobile computer on and off.

As soon as the mobile computer is on, the Windows Mobile desktop will appear on the screen. Wait a few seconds before starting any activity so that the mobile computer completes its startup procedure.



WINDOWS MOBILE TODAY SCREEN

Use the stylus (par. 4.1.1) or joystick (par. 4.1.2) as suggested to select icons and options.

The mobile computer goes into power-off (low power with display and keyboard backlight off), when it is not used for more than a programmable timeout, which is

defined in the POWER applet of the Control Panel. In this mode it can be awakened (resuming operation) by the [ON/OFF] key.

NOTE

The mobile computer can also be awakened or suspended programmatically.

4.1.1 Using the Stylus

The stylus selects items and enters information. The stylus functions like a mouse.

Tap:	Touch the screen once with the stylus to open items and select options.
Drag:	Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
Tap-and-hold:	Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

To recalibrate the touch screen use the Stylus applet (see par. 4.5.5).

CAUTION

Use only original Datalogic styluses supplied with the product itself.

In harsh applications, use of screen protectors should be taken into consideration, in order to extend the touch screen operating life.

To prevent damage to the screen, do not use sharp devices or any device other than the Datalogic provided stylus.

Do not apply too much pressure when touching the screen.

For applications where an intensive use of the touch screen is foreseen, please consider that touch screen components are subject to progressive wear.

4.1.2 Using the Joystick

The joystick selects items and enters information. The joystick can work like the directional arrow keys of a PC keyboard or can function like a mouse and control the mouse pointer. It is possible to switch between the two functioning modes by pressing blue modifier + BKSP keys in sequence.

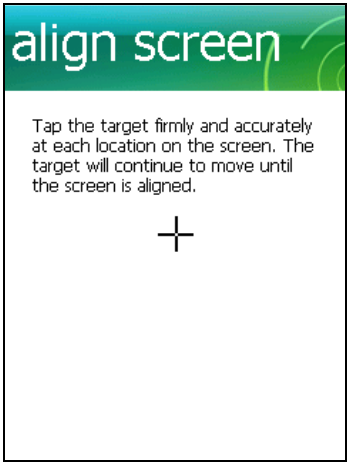
Arrow Keys Mode (default):	Move in the four directions: move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files. Press down: selects the current function (like the Enter key).
Mouse Mode:	Move in the four directions: move the mouse pointer forwards, backwards, upwards or downwards. Press down: like the left click of the mouse.

4.1.3 Windows Mobile Welcome Wizard

In Windows Mobile, at the very first Datalogic Memor startup, following a clean boot or following a registry restore to default values, the mobile computer startup (see par. 4.1 is preceded by the Welcome Wizard.

Welcome Wizard Screen

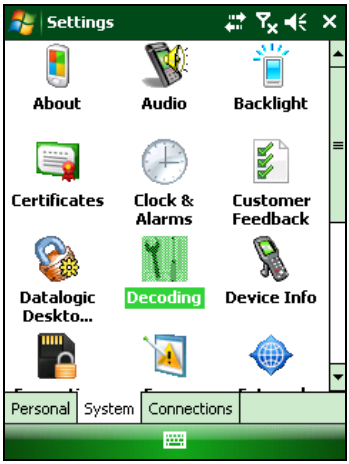
The Welcome Wizard allows the user to calibrate the touch screen (see section 4.5.5)and to configure an email account and a password to protect the terminal.



Touch Screen Calibration Screen

4.2 DATA CAPTURE

To capture data tap Start > Settings > System > Decoding:

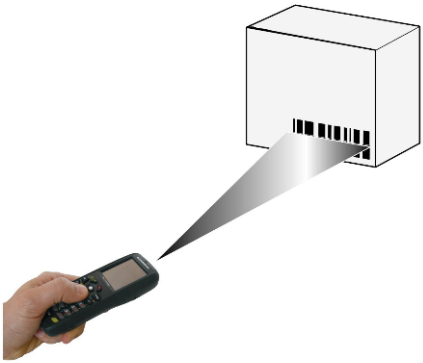


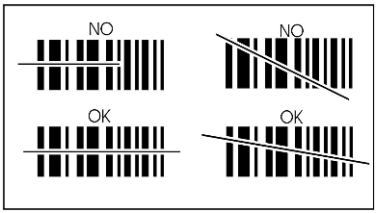
To configure and enable data capture parameters refer to par. 4.5.1.

4.2.1 Laser Data Capture

To scan barcodes, point the Datalogic Memor laser model onto the code from a distance within the reading range while pressing the SCAN key.

The lighted band emitted by the laser must completely cross the barcode as shown in the figure below.





If the scan has taken place correctly:

- the Good Read LED glows steadily Green for a configurable time;
- if enabled, the Good Read Beep plays;
- if enabled, the GreenSpot projects a green spot onto the bar code image.

NOTE

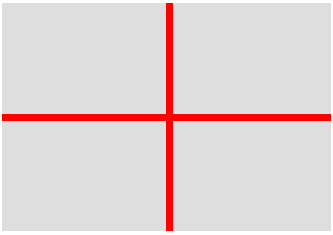
Remove the protective film cover over the data capture window before use.

4.2.2 Imager Data Capture

The Datalogic Memor Imager captures a picture of the entire bar code. The omni-directional scanning does not require that the operator orient the bar code to align with the scan pattern.

To read a 1D or 2D code, simply point the Datalogic Memor Imager model onto the code and press the SCAN Key or the pistol trigger.

The Datalogic Memor Imager uses an intelligent aiming system pattern, similar to those on cameras, indicating the field of view, which should be positioned over the code:



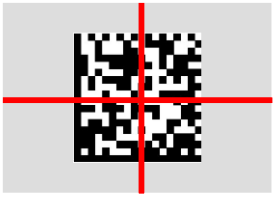
Aiming System

If the aiming system pattern is centered over the entire symbology as shown in the following figure, either wait for the timeout or release the Scan key or the trigger to capture the image.

A red beam illuminates the code, which is captured and decoded. You will get a good read.

Linear barcode

2D Matrix symbol



Relative Size and Location of Aiming System Pattern

The field of view changes its size as you move the reader closer or farther away from the code. The field of view indicated by the aiming system pattern will be smaller when the Datalogic Memor Imager is closer to the code and larger when it is farther from the code.

Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit. (See par. 5.1 for further details).

If the scan has taken place correctly:

– the Good Read LED glows steadily Green for a configurable time;
– if enabled, the Good Read Beep plays.

4.3 DESCRIPTION OF THE KEYBOARDS

The Datalogic Memor comes with a 23-key alphanumeric keyboard + ON/OFF key + joystick.

Main Keys Function

KEY	FUNCTION
	The SCAN key starts data capture.
	The joystick lets you move forwards, backwards, upwards or downwards, scroll through a Menu list, browse among folder files or select functions if pressed down. It can work in two functioning modes: Arrow Keys Mode and Mouse Mode. It's possible to switch between them by pressing blue modifier + BKSP keys in sequence (see par. 4.1.2).
	Yellow modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key
	The ON/OFF Power button powers the Datalogic Memor ON or OFF. It is placed on the upper left side of the terminal.
	The ALPHA key is used to alternate numeric and alphanumeric use of the 10 numeric keys.

Special Function Icons

ICON	FUNCTION	ICON
	After a yellow modifier key press, it opens the Start menu.	
	After a yellow modifier key press, it opens the file manager.	
	After a yellow modifier key press, it switches ON/OFF the display backlight.	
	After a blue modifier key press, it switches ON/OFF the keyboard backlight.	

After a yellow modifier key press, it opens the file manager.

After a yellow modifier key press, it switches ON/OFF the display backlight.

After a blue modifier key press, it locks and unlocks the keyboard.

4.3.1 Resetting the Datalogic Memor

There are several reset methods for the Datalogic Memor.
A warm boot terminates an unresponsive application and clears the working RAM, but preserves both the file system and the registry.
A cold boot forces all applications to close and clears working RAM and files not resident on the persistent flash memory. Registry is restored from persistent memory if available or returned to factory default.
A clean boot restores the Datalogic Memor to factory configuration: registry and file system return to factory default.

Warm Boot

A warm boot closes all applications, clears the working RAM, but preserves the file system and registry. If an application "hangs" initiate a warm boot to terminate the application.
To perform a warm boot, press these keys simultaneously:

Cold Boot
A cold boot is a complete reset of the Datalogic Memor in which all applications are forcibly closed and RAM is completely cleared. Registry is restored from persistent memory if a saved copy is available and RAM file system completely erased. You will lose any applications and data (registry too) which are not stored in persistent flash memory.
A cold boot is necessary when the Windows CE operating system locks up and the warm boot command does not work.
To perform a cold boot, press these keys simultaneously:

Clean Boot

A clean boot is a cold boot that causes the device to be restored to factory configuration. The Datalogic Memor will reset to its factory configuration, clear the working RAM and initialize the file system. You will lose any applications and data stored in persistent flash memory. At the next startup the system will ask to recalibrate the touch screen.
To perform a clean boot, follow these steps:

1. Perform a Cold Boot (see Cold Boot).
2. Quickly release all the keys when the screen goes black.
3. Within 1 second press and hold down the Esc and 0 keys until the left orange led starts blinking.
4. Release the Esc and 0 keys.
5. Enter 1 to proceed with the Clean Boot sequence. Enter 0 to cancel the Clean Boot and proceed with a Cold Boot.

	Warm Boot	**Cold Boot**	**Clean Boot**
Registry	Preserved	Restored from flash (if available)	Factory default
Flash Disk (Backup Folder)	Preserved	Preserved	Clean disk
RAM File System	Preserved	Reinitialized (factory default)	Factory default

4.4 STATUS INDICATORS

4.4.1 LED Status

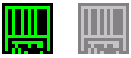
The Datalogic Memor provides two different LEDs signaling the mobile computer status.

LED	STATUS	
Good Read and General Purpose (left side)	Green	It is constant for a configurable time to signal that a successful read has occurred.
	Green/ Red	It is also available to the application program.
Charging Status (right side)	Green	It is solid once the charging process has been completed (full charge).
	Red	It is solid while charging.
	Off	if the charging stops due to high temperature, failures etc.
	Orange	it is constant while in pre-charge status

4.4.2 Taskbar

Windows Mobile 6.1 Taskbars

The Taskbar provides information about the time, the battery level, the keyboard function, and the decoding status.

ICONS	DESCRIPTION
Time and Battery Icons	
	Opens the Connections balloon, which includes hypertext links to the Wireless Manager and the Connections applet. (see par. 4.5.4).
	Opens the Volume balloon, which allows the user to control all volumes.
	Displays the battery status
Keyboard Status Icons	
	It indicates that the blue FUNC key has been pressed and is going to affect the next key press.
	It indicates that the yellow FUNC key has been pressed and is going to affect the next key press.
	It indicates that the ALPHA key has enabled the selection of the characters printed in orange.
	It indicates the NUMERIC key selection, the ALPHA key has not been pressed.
	It indicates that the ALPHA key has enabled the selection of the characters printed in orange and the Capslock is active.
Decoding Status Icons	
	It indicates that the decoder is active (green), not active (grey).

4.5 SETTINGS

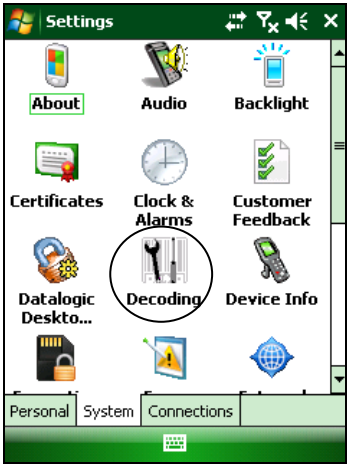
From the Start menu, tap Settings. The settings are organized hierarchically.

Control panel applets are displayed as icons; each icon corresponds to one applet:

Windows Mobile Control Panel

4.5.1 Data Capture Configuration

From the Start menu, tap Settings -> System -> Decoding. The "Decoding" icon opens the configuration applet (Data Capture Configuration Window).



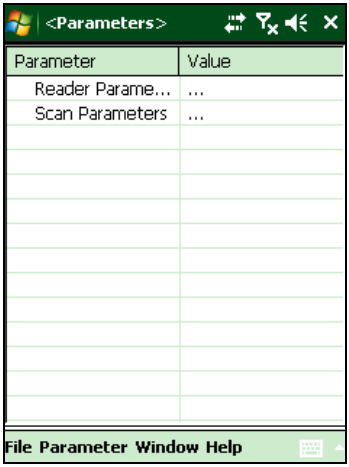
Configure

The Configuration applet contains the barcode scanning configuration parameters in a directory tree structure. The available barcode parameters are divided into two groups: Reader Parameters and Scan Parameters.

The Reader Parameters depend on the type of scanner module installed on the mobile computer and allow barcode configuration (i.e. enable/disable Code 39, check digit control, etc.).

The Scan Parameters are common to all scanner modules and allow control of the scanning device (i.e. beeper control, LED control, laser timeout, etc.).

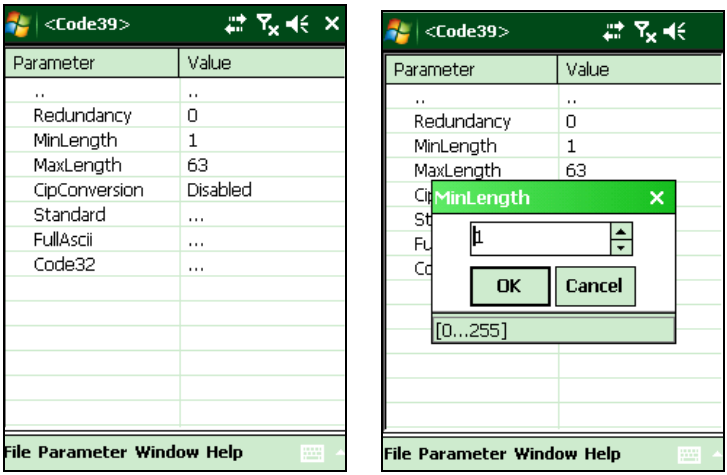
Each Data Capture screen window corresponds to a branch of the tree, and the name of the current branch is displayed at the bottom of each screen window.



Data Capture Configuration Window

The screen format shows two columns where the left column indicates branches or parameters. Branches have three dots in the right column (...). You can navigate through the tree structure using the stylus or keyboard arrows directly on the item field or from the menu.

Parameters have their corresponding current values in the right column. You can edit parameter values using the stylus or keyboard arrows directly on the item field or from the menu. To change a value for example, select the line of the value to be changed, choose Edit from the Parameter Menu then choose a new value from the values listed in the box (see following figures).



Selecting Data Capture Setup Parameters

Alternatively using the stylus, you can tap once directly on the value on the right column; continue tapping until the desired value is reached.

To activate a new configuration select the File ->Save Menu to send the new configuration to the barcode decoding software and save the new configuration. This will save the configuration to non-volatile memory preventing loss at the next system reset.

Reader Parameters

The barcode reading parameters and values are dependent upon the type of scanner module mounted in your mobile computer. For a detailed list of parameters and of their configuration procedures, please refer to the SDK Help file on the CD.

Scan Parameters

The Scan Parameters are common to all scanner modules and allow control of the scanning device. The Scan parameters are described as follows:

ScanTimeout: the maximum time, in milliseconds, during which the scanner remains on without decoding any barcode.

BeepType: if set to dual tone, the good read beep is a sequence of high and low pitch sounds. If set to monotone, the beep is a single pitch sound.

BeepDuration: the time interval, in milliseconds, during which the beeper will sound when the scanner reads a code. To disable the beeper, set this value to 0.

BeepFrequency: determines the frequency in Hertz of the beeper.

GoodReadSound: is the beep sound emitted when the scanner reads a code.

LedDuration: the length of the good-read led pulse, in milliseconds.

LedPulses: the number of times the good-read led pulse is emitted when the scanner reads a code.

ContinuousMode: disables the effect of the ScanTimeout parameter.

KeyboardEmulation: if enabled all scanned data are transformed into keyboard events and can therefore be displayed and saved to a file as if input from the mobile computer keyboard.

SoftTrigger: when enabled, the laser can be turned on/off by the application software.

ScanAlwaysOn: enables the scanner for barcode reading independently from the application software.

GreenSpotDuration: determines the duration (measured in milliseconds) of the green spot feedback, which provides a “good read” green dot directly on the code, where the operator usually tends to be looking.

NotPrintableChar: if set to “Remove”, all not printable characters included in the scanned data are deleted and the final barcode will include only printable characters.

ScanButton: enables/disables the scan button. If the scan button is disabled, the reader can be triggered under software control.

Default Settings

The following tables contain the default values for the major barcode setup parameters, according to the type of scan engine mounted on the mobile computer. For a complete list of parameters and of their configuration procedures, please refer to the SDK Help file on the CD.

SCAN PARAMETERS	LASER MODELS	IMAGER MODELS
ScanTimeout	5000	Not available
BeepType	Dual tone	Not available
BeepDuration	20	Not available
BeepFrequency	2000	Not available
GoodReadSound	Beep	Beep.wav
LedDuration	200 ms	200 ms
LedPulses	1	1
ContinuousMode	Disabled	Disabled
KeyboardEmulation	Enabled	Enabled
SoftTrigger	Enabled	Enabled
ScanAlwaysOn	Disabled	Disabled
GreenSpotDuration	1000	Not available
NotPrintableChar	Leave	Leave
ScanButton	Enabled	Enabled
BARCODE SYMBOLOGY SPECIFIC READER PARAMETERS	LASER MODELS	IMAGER MODELS
UPC A	Enabled	*
UPC E	Enabled	
EAN 8	Enabled	
EAN 13	Enabled	
UPC/EAN/JAN	Not available	Enabled
Code 39	Enabled	Enabled
Code 39 Full ASCII	Disabled	Disabled
Code 32	Disabled	Not available
2/5: Interleaved	Enabled	Enabled
2/5: Industrial	Disabled	Not available
2/5: Matrix	Disabled	Not available
Code 128	Enabled	Enabled
EAN 128	Enabled	Disabled
CODABAR	Disabled	Enabled

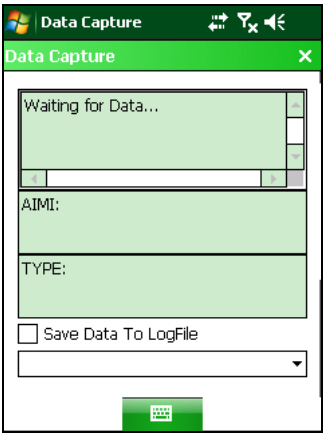
* In the Imager models these codes may only be enabled or disabled as a group by the UPC/EAN/JAN family selection (see a few lines below).

BARCODE SYMBOLOGY SPECIFIC READER PARAMETERS	LASER MODELS	IMAGER MODELS
MSI	Disabled	Not available
Plessey	Disabled	Not available
Code 93	Disabled	Enabled
Code 11	Disabled	Not available
GS1 Databar	Disabled	Enabled
GS1 Databar Omnidirectional	Disabled	Not available
GS1 Databar General	Not available	Enabled
GS1 Databar Limited	Disabled	Enabled
GS1 Databar Expanded	Disabled	Enabled
PDF - 417	Not available	Enabled
Data Matrix	Not available	Enabled
QR	Not available	Enabled
POSTNET	Not available	Disabled*
PLANET	Not available	
Japan Post	Not available	
Australia Post	Not available	
KIX Code	Not available	
Royal Mail Code (RM4SCC)	Not available	

* These codes may be enabled individually but are disabled as a group.

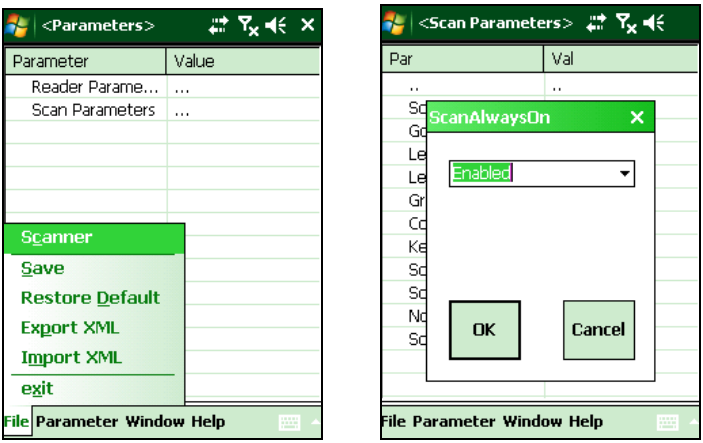
4.5.2 Capture

The Data Capture applet (Capture) enables code reading.



Data Capture Window

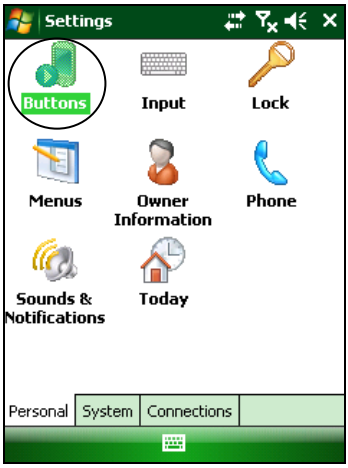
Data Capture can also be enabled through the Configuration applet by selecting File ->Scanner from the main menu, or by enabling the parameter Scan Always On in the Scan Parameters branch.

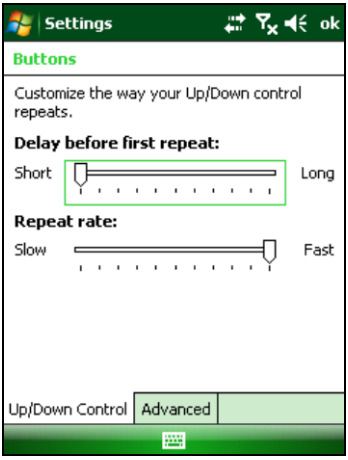


Enabling the Data Capture

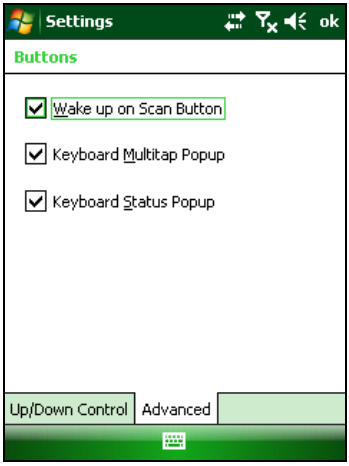
4.5.3 Buttons

Tap Start > Settings > Personal > Buttons.
You can use the Up/Down Control tab to customize the way your up/down and the rest of keys control repeats.





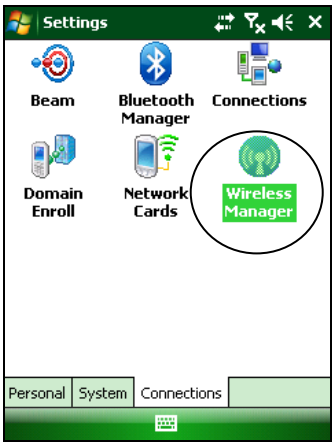
You can also select to wake up the terminal by the SCAN key.

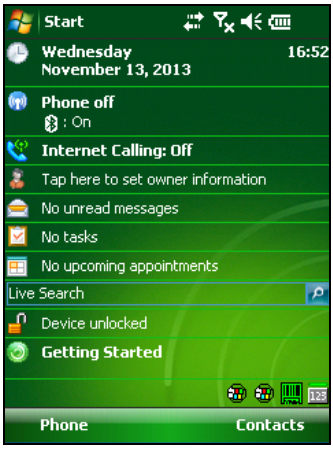


4.5.4 Wireless Communications

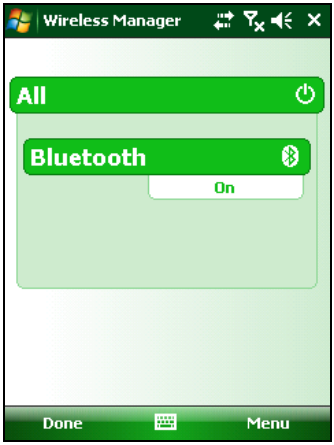
The Wireless Communications applet provides management of the 802.11 abg radio and the Bluetooth® modules.

The Wireless Manager application manages access to wireless connections.
The 'Wireless Manager' is a sort of 'Control Panel' for bluetooth and phone modules. From here it's possible to turn on or off bluetooth and phone radio stacks.
Tap Start > Settings > Connections > Wireless Manager, or tap the Connectivity icon located at the top of the screen.





The following window will appear:

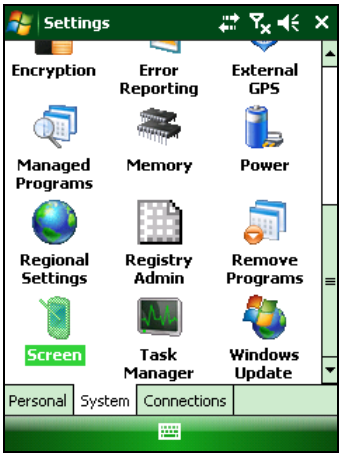


4.5.5 Stylus Calibration

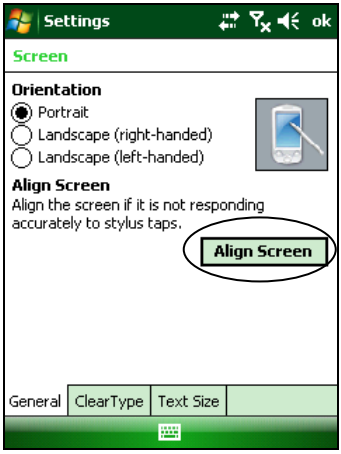
You might need to recalibrate the touch screen (i.e. when you attempt to select one item with the stylus, another item is erroneously selected).

To recalibrate the touch screen, complete the following steps:

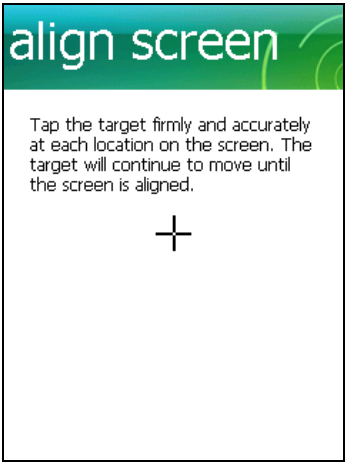
1. Tap Start > Settings > System > Screen to open the Screen Settings dialog:



2. Tap Align Screen to open the Calibration screen:



3. Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen. Press th**e <ESC>** key at any time to cancel the stylus calibration.
4. By completing the calibration procedure you implicitly accept the new calibration settings.
5. New calibration settings are persistently saved in registry.



Startup Stylus Calibration

When starting the terminal, a Welcome Wizard (with Stylus Calibration) comes up if valid calibration settings are not available. This happens in the following circumstances:

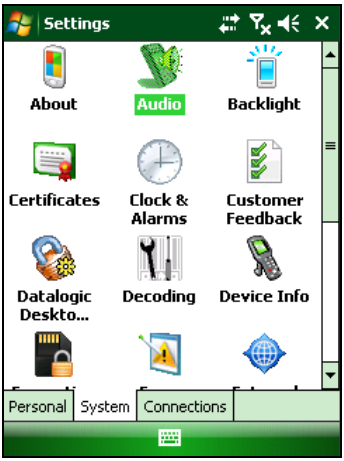
1. At the first startup of the terminal.
2. After restoring registry default settings using the applet Registry Admin and performing a boot.
3. After a Clean Boot.

4.5.6 Audio Settings

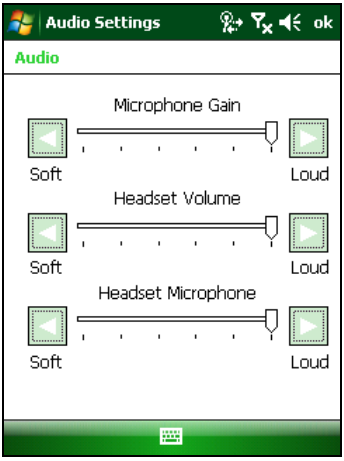
There are two applets that control volume: Audio and Sounds & Notifications.

Audio

From the Start Menu, tap Settings > System > Audio:

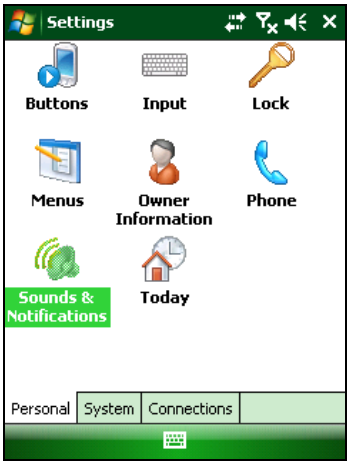


The Audio applet allows to set the recording volumes of the main microphone and of the headset microphone. Also, it allows to set the headset volume when the user is listening to an audio file.

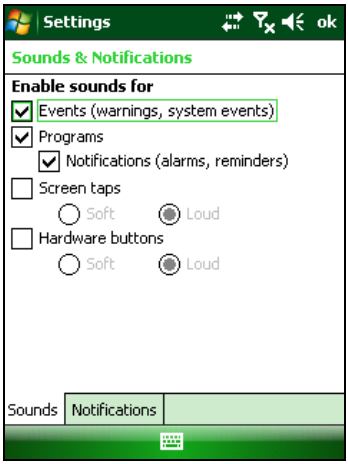


Sounds & Notifications

From the Start Menu, tap Settings > Personal > Sounds and Notifications:

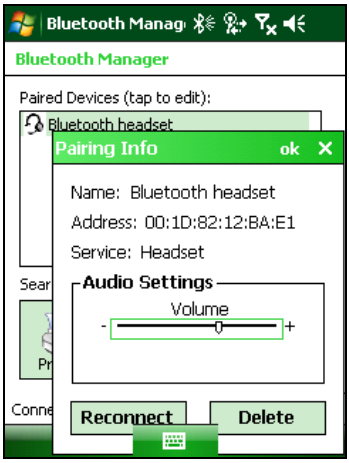


The Sounds & Notifications applet configures audio features of all speakers and headphones:



You can also set the volume of a paired Bluetooth® headset.

Tap Start > Settings > Connections > Bluetooth Manager, select the Connections tab and then select the headset pairing in the Paired Devices list. The following window will appear:



4.6 CONNECTING TO OTHER COMPUTERS

To connect the Datalogic Memor to another device (i.e. Host PC) which run Windows, several programs are available. These programs require specific electrical connections in order to function properly.

4.6.1 Windows Mobile® Device Center

The desktop application Windows Mobile® Device Center gives you the ability to synchronize information between a desktop computer and your Datalogic Memor. Synchronization compares the data on the Datalogic Memor with that on the desktop computer and updates both with the most recent information.

Windows Mobile Device Center is only compatible with Windows Vista and Windows 7; if you run Windows XP or earlier, you have to download Microsoft ActiveSync.

You can establish a connection to your Datalogic Memor through the following interfaces:

- USB either directly or through the Single Dock
- RS232 either directly or through the Single Dock
- Bluetooth® (see par. 4.6.2)

To establish a partnership between the Datalogic Memor and a host PC, start Windows Mobile® Device Center and follow the steps below:

1. Connect the Datalogic Memor to the host PC. Windows Mobile® Device Center configures itself and then opens.
2. On the license agreement screen, click Accept.
3. On the Windows Mobile Device Center's Home screen, click Set up your device.
4. Select the information types that you want to synchronize, then click Next.
5. Enter a device name and click Set Up.

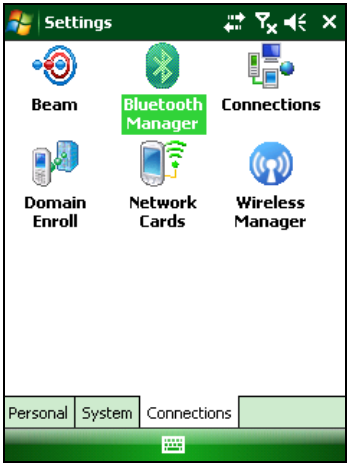
When you finish the setup wizard, Windows Mobile® Device Center synchronizes the mobile computer automatically. Microsoft® Office Outlook® emails and other information will appear on your device after synchronization.

4.6.2 Bluetooth® Manager Device Setup

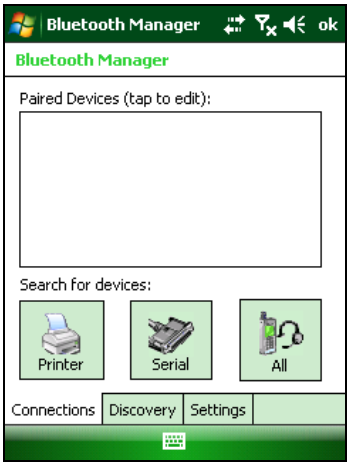
Using the Datalogic Memor to connect to another device

To create a Bluetooth® pairing between your device and another device that has Bluetooth® capabilities, ensure that the two devices are turned on, discoverable, and within close range.

1. Open the Bluetooth® control panel by tapping Start > Settings > Connections > Bluetooth Manager:



2. From the Bluetooth Manager control panel tap ‘Connections’.



3. Search for available Bluetooth® devices by tapping the button for the type of device you want (Printer, Serial or All) or tap the Discovery tab and then tap the Discover button to skip this step. The Datalogic Memor will search for Bluetooth® devices within range.

NOTE

If you attempt to set up a connection when the Bluetooth® radio is disabled, you will receive a message reminding you that the radio is turned off, and asking if you want to turn it on. Tap Yes if you need to enable the Bluetooth® radio.

4. Once searching is complete, Bluetooth® devices will be displayed in the Discovery tab. You can set up a connection to a device in the list by selecting the device and then tapping the 'Connect' button:

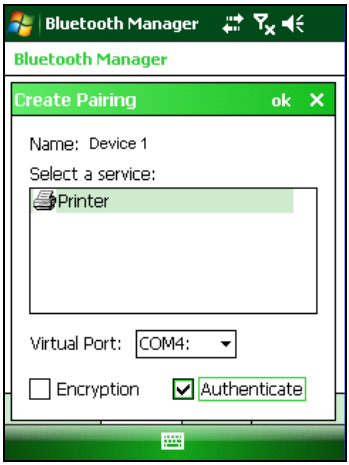
To create a pairing:

1. Select a service:

2. Configure any encryption, authentication, or virtual port options required by the service selected.

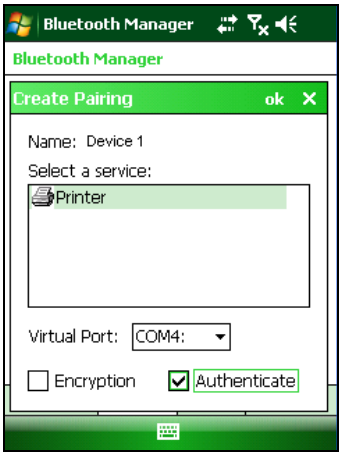
Icon	Service
	Dialup Networking
	Printer
	Object Push (OPP) Object Exchange (OBEX)
	ActiveSync
	Human Interface Device (HID) - Keyboard
	Serial
	Personal Area Network (PAN)
	Modem
	Headset
	Handsfree

Virtual Port allows you to specify the incoming port, which is used to communicate serially with an incoming device just as if it were a physical COM port. This option is available only if you have selected a Printer or Serial service.



You can also select Encrypt or Authenticate from the Bluetooth® control panel to apply or modify those settings.

1. To require Authentication, check the checkbox, then tap OK.

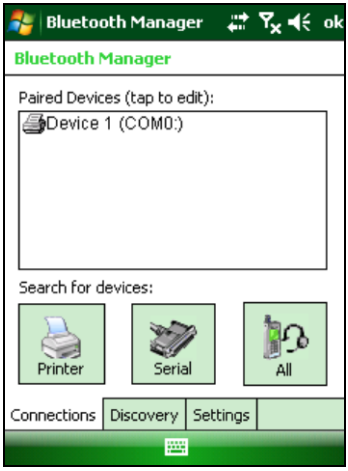


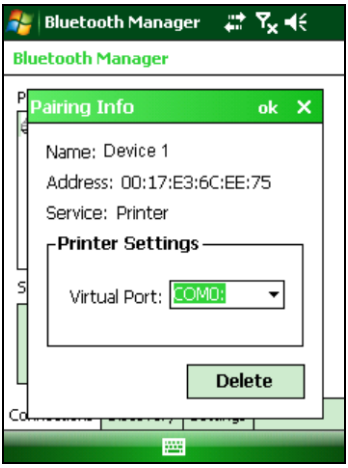
2. If required, the Authentication Request dialog will then open, requesting that you enter a PIN. Use the Input Panel or the keyboard to type the PIN.

3. Tap OK to complete.

The dialog will also appear when an Authentication request is received from another device.

Once you have set up a pairing, you can view the settings by double-tapping its name from the Connections tab. Tap the arrow to change the Virtual Port, or Delete to remove the device pairing. Tap Sync to initiate a Sync (available only if the service is an ActiveSync connection).

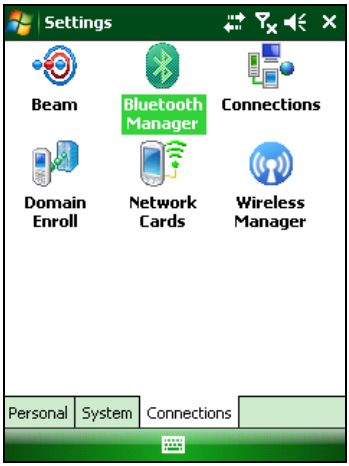




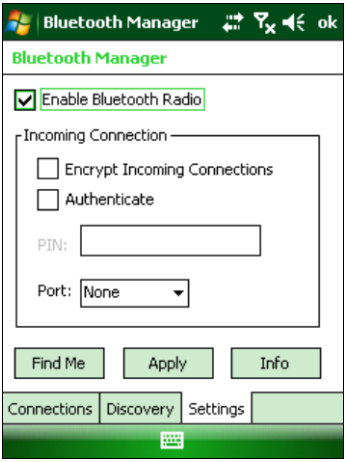
Using your device to connect to the Datalogic Memor

Before turning on Bluetooth®, ensure that the two devices are within close range and that both Bluetooth-enabled devices are discoverable.

1. Tap Start > Settings > System > Bluetooth Manager to open the Bluetooth® control panel.

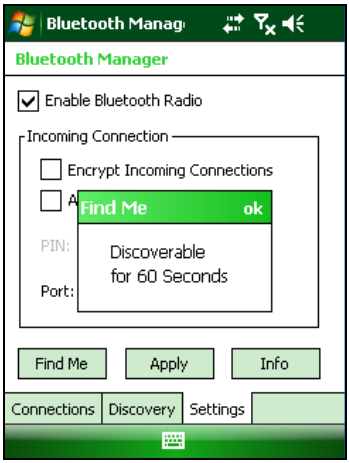


2. Tap Settings. The Settings tab allows you to enable or disable the Bluetooth® radio and specify settings for Incoming Connections.



3. Select or clear the “Enable Bluetooth Radio” check box.
If you’re going to be attaching a serial device (i.e. a scanner) to the Datalogic Memor, use the Port control to select a virtual COM port to use for the connection.

5. Tap ‘Find Me’ if you want to make the Datalogic Memor discoverable to other Bluetooth® devices for 60 seconds, allowing them to set up a connection.



NOTE

By default, Bluetooth® is turned off. If you turn it on, and then turn off your device, Bluetooth® also turns off. When you turn on your device again, Bluetooth® turns on automatically.

4.7 DATALOGIC FIRMWARE UTILITY

The Datalogic devices are equipped with a field upgradeable firmware mechanism. Firmware updates are available on the Datalogic website: http://www.datalogic.com/eng/support-services/automatic-data-capture/downloads/software-utilities-sw-2.html.

After you have downloaded the desired update, there are several ways you can update the firmware on your device.

- Use Wavelink Avalanche™ if you have multiple Datalogic devices to update. For more information refer to the dedicated section of the Wavelink website: http://www.wavelink.com/Datalogic-device-downloads.
- If Wavelink Avalanche™ is not available or you have only a few Datalogic devices to update, use the Datalogic Firmware Utility (DFU), described below, to install or update the firmware using an ActiveSync connection.

The following sections provide procedures for the retrieval and installation of the most current firmware image onto a Datalogic device.

4.7.1 Retrieving a Firmware Image Update

The following instructions use Internet Explorer to retrieve the most current firmware image.

1. Launch Internet Explorer on your PC and navigate to the Datalogic website.
2. Navigate to the Downloads section of the website.
3. Using the device selection fields, select the file you want to download, then click Save to begin copying the files to your local machine (or local network location).

4.7.2 Installing DFU on the Host PC

Datalogic Firmware Utility (DFU) provides administrators with a field upgrade mechanism. You must have Microsoft® ActiveSync (for Windows XP devices) or Windows Mobile® Device Center (for Windows 7 and Vista devices) already loaded and running on the host PC to use DFU. Refer to par. 4.6.1 for more information about Windows Mobile® Device Center.

NOTE

Prior to installing, you must remove any previous versions of DFU installed on the host PC.

To install the Datalogic Firmware Utility, complete the following steps on the PC:

1. Go to the Datalogic website and download the most current version of the Datalogic Firmware Utility. Unzip the file, then double-click to run `DFU_Setup.exe`.

2. Click OK to continue once you have removed previous versions of DFU.

3. The Welcome to DFU Setup Program screen opens.
   - Please exit all Windows applications before running this installer.
   - Click Next to continue the Setup.

4. Follow the onscreen instructions to complete the installation.

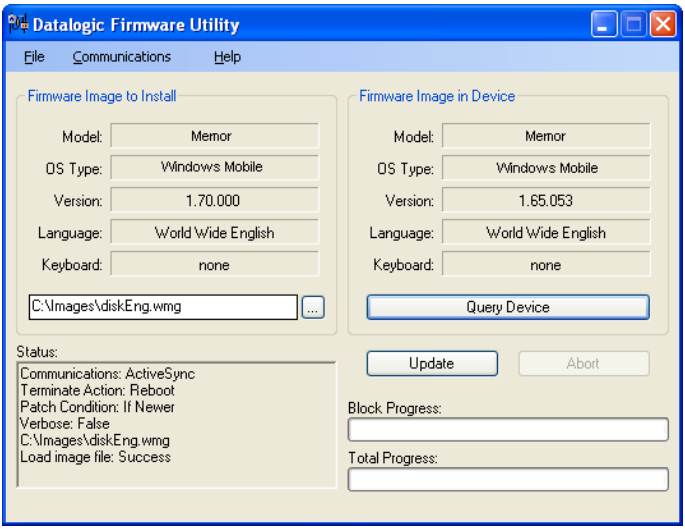
4.7.3 Updating the Firmware

After copying the firmware image to the host PC (see par. 4.10.1) and installing DFU (see par. 4.8.2), you can upgrade the firmware on your Datalogic device.

NOTE

The following steps require that you have already established an ActiveSync or Windows Mobile Device Center connection between the host computer and the Datalogic device.

1. Go to Start > Programs > Datalogic > DFU > Datalogic Firmware Utility.
2. Verify that ActiveSync is selected by clicking Communications > WMDC/ ActiveSync.
3. Click browse (...) and navigate to the location where you saved the firmware file for your terminal.



4. Select the current *.out file and click Open.
5. Click Update.
6. DFU will compare the selected firmware image with the firmware already loaded on the device; if the image is compatible with the connected device, DFU will proceed to update the firmware image on your device.

After the firmware of your device has been updated, DFU will automatically perform a warm reset of the device.

4.8 DATALOGIC CONFIGURATION UTILITY

Datalogic Configuration Utility (DCU) is a Datalogic Windows-based utility tool allowing the uploading, modifying and downloading of the configuration of a Datalogic device. Configuration settings include Scanner, Control Panel, and Datalogic Desktop Utility (DDU). The DCU installer is downloadable from the Datalogic website (http://www.datalogic.com/eng/support-services/automatic-data-capture/downloads/software-utilities-sw-2.html).

DCU functions in both direct (with an ActiveSync connection) and indirect (with Wavelink Avalanche™) modes.

In direct mode, connect a device through ActiveSync and then click on the Get from Device icon to receive the device's current configuration.

Once loaded, the Configuration Tree (on the left side of the window) is used to navigate the device's configuration. The right side of the window is a work area where the values of different parameters may be set for each branch of the configuration tree. Click on the parameter group branch to open it and inspect the parameters you wish to modify.

After altering the device's configuration, the new configuration can be sent to the terminal by clicking on the Send to Device icon.

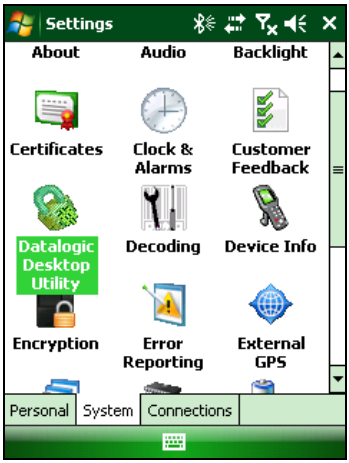
Reference the Wavelink Avalanche™ documentation on the Wavelink website (www.wavelink.com/Datalogic-device-downloads) for a description of indirect mode for DCU, which will allow you to update the configuration of multiple devices simultaneously over Wi-Fi.

4.9 DATALOGIC DESKTOP UTILITY

Datalogic Desktop Utility (DDU) allows administrators to configure Windows® CE and Embedded Handheld devices to control individual user access. This includes the ability to:

- Prevent users from changing your device OS settings.
- Define keys to access specific functionality/programs.
- Use Application Selector to replace desktop with a selection of authorized applications
- Internet Explorer access restriction, configuration and customized recovery mechanisms.

To open DDU for the first time, tap Start > Settings > System > and then tap the icon for “Datalogic Desktop Utility”.

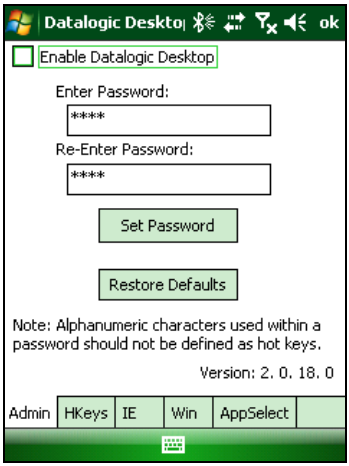


These options are available from all screens:

COMMAND	DESCRIPTION
OK	Tap **OK** to apply the settings and modifications you have made in the DDU tabs. **OK** saves every modifications.
X	Tap **X** to cancel the settings and modifications you have made in the DDU tabs. **X** cancels all modifications you have made in **DDU**.

4.9.1 Administrative Options (Admin tab)

When you open the DDU control panel, the “Admin” tab appears.



COMMAND	DESCRIPTION
Enable Datalogic Desktop	Select/tap this checkbox to activate the DDU functions such as Windows Access Restrictions and Application Selector.
Enter Password	Enter a password in the text box. This allows the user to specify a password when this utility is launched. By default the password is “1234”. A password can consist of all standard keyboard characters.
Re-Enter Password	Carefully re-enter the password in the second text box.
Set Password	Select/tap “Set Password” to enable the password. To change or remove the password, enter a new value, re-enter the new value, and select/tap “Set Password”.
Restore Defaults	Select/tap “Restore Defaults” to reset the default values of all the functions on all the tabs. After you select this option, you will receive a prompt to verify this selection.

Setting a Password

To set a password:

1. Enter a password in the field. This allows the user to specify a password when this utility is launched. By default the password is “1234”.

NOTE

Be sure to record the Password for future reference.

2. Re-enter the password in the second field.
3. Select/tap “Set Password” to enable the password.
4. Select/tap “OK” to close the “Set Password Confirmation” dialog.

NOTE

You must select/tap “Set Password” prior to exiting DDU in order to store and activate your new password. It is not necessary to select “Enable Datalogic Desktop”.

CAUTION

If you select/tap “Set Defaults” it will remove all custom settings and restore all the factory default settings, except a previously set password.

Changing a Password

To change to a new password:

1. Enter a new value in the “Enter Password field”.
2. Re-enter the new value in the “Re-enter Password” field.
3. Select/tap “Set Password”.

Removing a Password

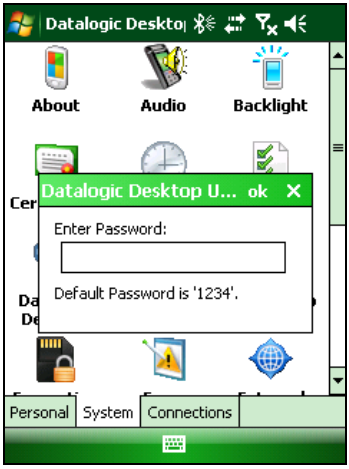
To remove a password:

1. Enter blanks in both “Password” fields.
2. Select/tap “Set Password”.

Password Request Dialog Box

Once the password is set, the next time you open the “Datalogic Desktop Utility”, the DDU Password dialog box opens.

This dialog box will only open if a password was defined.



1. Type in your password using either the keypad on the unit, or using the stylus on the soft input panel (SIP).
   If you enter an incorrect password, the system will prompt you to input the correct one.

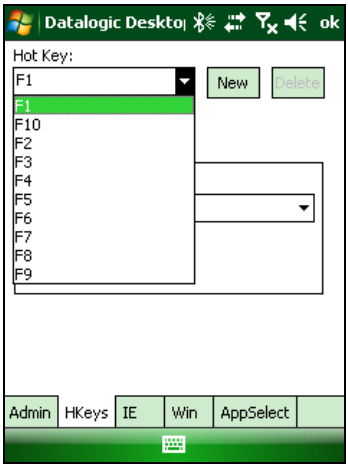
2. Select/tap “OK” to verify the password. Or tap “X” to cancel.

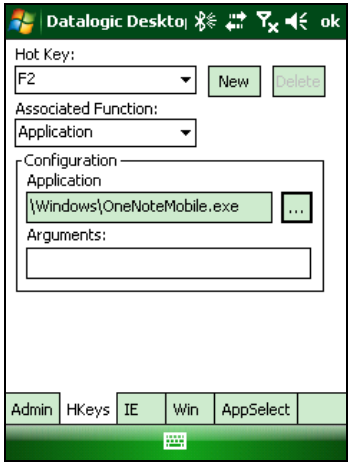
4.9.2 Setting Hot Keys

You can use Hot Keys (HKeys) Tab to associate specific keys, such as <F1>-<F10>, with specific applications. You can also create a new Hot Key combinations. Select the HKeys tab to access these options.

For example, you could set <F2> to launch a sample application like:

`\Windows\OneNoteMobile.exe`.





COMMAND	DESCRIPTION
Hot Key	This pull-down list displays the available function keys to define. Select the desired one from the list.
New	Select/tap to specify a new Hot Key, not on the Hot Key list. This opens a new dialog, shown in Figure 4.
Delete	Tap to delete the selected Hot Key. You can only delete the Hot Keys you have added. You cannot delete <F1> -<F10>.
Associated Function	This pull-down list displays the available functions. Select either Application or Action.
Application	Displays path to the selected application.

Browse	Select/tap  to browse for application files. You can associate an executable program with the specified Hot Key.
Arguments	Type the command-line arguments that are needed for the specified application. This option is only available when Application is selected in the Associated Function pull-down list.
Action	Specify an action to associate with a Hot Key. This list includes: SIP, toggle Taskbar, Datalogic Config Admin, and Application Switcher. This option is only available when Action is selected in the Associated Function pull-down list.

The <F6> is the key initially assigned to DDU Admin.

If you wish to assign this key to a different function, you must first select an unassigned Hot Key and assign it to the Action - DDU Admin. You can then go back and reassign the FKey to something else.

Datalogic device
19-key models
Numeric
F1-F10
Alpha keys
Side/top triggers

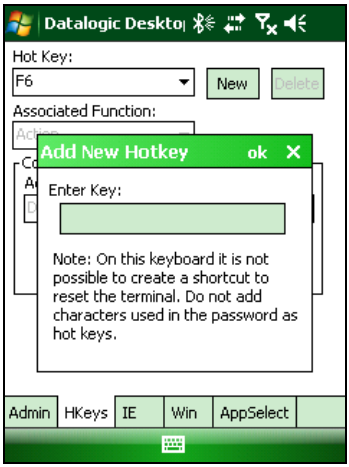
Hot Keys Available

Adding a new Hot Key

When you select 'New' on the HKeys tab, this opens the Add New Hotkey dialog box.

To define a new Hot Key, complete the following steps:

1. Enter the key combination to define a new Hot Key in the Enter Key textbox.
2. The Note displays important information indicating Hot Keys that should not be used.
3. Select/tap OK to save the New Hot Key. If you select/tap X, the key will not be saved.



COMMAND	DESCRIPTION
Enter Key	Enter the desired key combination in this text box to define a Hot Key.
OK	Select/tap **OK** to add the specified Hot Key.
X	Select/tap **X** to cancel the specified Hot Key.

NOTE

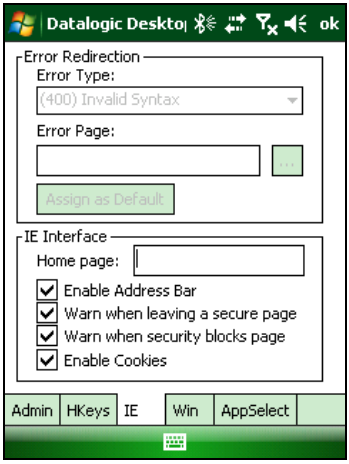
Make sure you do not attempt to add a Hot Key that is already defined.

CAUTION

It is possible for the keyboard wedge to activate assigned Hot Keys using alphanumeric characters. Barcodes containing characters associated with assigned Hot Keys will trigger the action or application assigned to that Hot Key.

4.9.3 Internet Explorer Configuration

Tap the IE (Internet Explorer) tab to access the IE Configuration option. Use the IE Error Redirection option to provide customized recovery from common IE errors. When an error occurs, the browser can redirect access to a specified error page with instructions on how to recover from the problem.

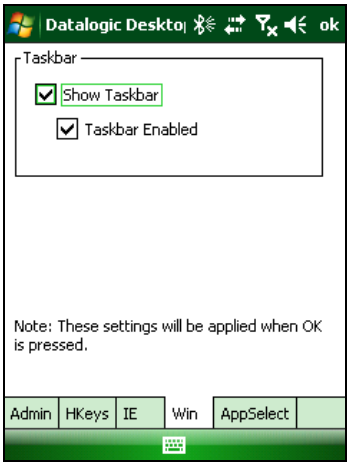


COMMAND	DESCRIPTION
Error Type	The **Error Types** pull-down list displays available **IE Error Types**:
	(400) Invalid Syntax, (403) Request Forbidden, (404) Object Not Found, (406) No Response Format, (410) Page Doesn't Exist, (500) Internal Server Error, (501) Server Can't Do That, Generic Error, Server Is Busy, Couldn't Find Server, URL Syntax Error, Request Cancelled, Not Available Offline.
Error Page	Edit this textbox to associate a website or html file with the specified error.
Assign as Default	Select/tap to set a specified error page as the default. A confirmation dialog opens to ask if the default error page applies to all errors.
Browse	Select/tap to browse for files.
Enable Address Bar	Select/tap this check box to show the IE address bar.

4.9.4 Modifying Windows Controls

Select/tap the “Win” (Windows Controls) tab to access the Windows Controls option. Use Windows controls to allow or restrict access to Windows system functions.

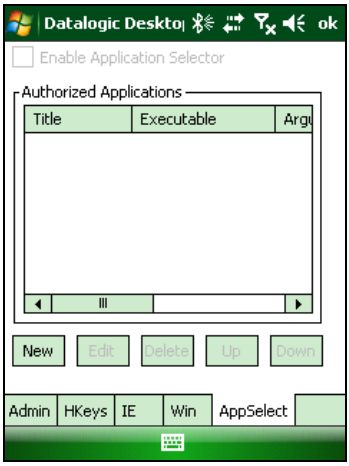
You can disable the taskbar, leaving nothing but a blank workspace. This allows applications to be run in full screen mode and prevents users from accidental or unauthorized use of the taskbar, Internet Explorer, and any other resident applications.



COMMAND	DESCRIPTION
Show Taskbar	Select/tap Show Taskbar to specify that the taskbar is shown or hidden.
Taskbar Enabled	Select/tap Taskbar Enabled to specify whether the taskbar is accessible. This option is only available when the Show Taskbar is checked.

4.9.5 AppSelector Options (AppSelect tab)

Tap the Application Selector (“AppSelect” Tab) to edit, add, or delete applications for the application selector.



Application Selector Options	
Enable Application Selector	Select/tap “Enable Application Selector” to enable/disable the application selector. When enabled, the Application Selector replaces the desktop and allows only authorized use of applications.
Authorized Applications	This is a list of applications that the user can access.

Application Selector Commands	
New	Select/tap “New” to create a new application entry.
Edit	Select/tap “Edit” to edit the selected entry.
Del	Select/tap “Del” to delete the selected entry.
Up/Down	Select/tap “Up/Down” to move an entry up or down in the ListView.

Add Applications

The “Add Application” dialog opens when you tap either “New” or “Edit”. From the “Add Application” dialog the administrator can configure and/or add/change a new application entry in the list.

Applications with the “Run Application at Startup” option enabled will start automatically when the Application Selector starts up.

COMMAND	DESCRIPTION
Application Title	Type the name of the application in this textbox in the way you wish it to appear for the user.
Executable	Displays the path for the executable file which you want to run.
Browse	Select/tap … to browse for the desired executable file. The results of this search are placed in the “Executable” textbox.
Arguments	Type any command line arguments to be used when an application is executed.
Icon File	Displays the path/link to the desired icon file.
Browse	Select/tap … to browse for the desired icon file. The results of this search are placed in the “Icon File” textbox.

COMMAND	DESCRIPTION
Run Application at Startup	Select/tap this box to force this application to auto start when the Application Selector starts up. Applications will be started in the order listed in the authorized application list.
Delay	Enter a delay duration in seconds in the combo box. This option delays auto start of application(s) to allow drivers to load prior to starting applications.
OK	Select/tap “OK” to add/save changes.
X	Select/tap “X” to cancel the creation of this entry.

4.10 APPSELECTOR (APPLICATION SELECTOR)

The Application Selector is an application that allows a device to run in kiosk mode. The administrator can choose for the user to have access to the desktop or not.

The Application Selector can replace the desktop and limit the user to the specified list of applications.

By default, the Application Selector comes with no applications preset.

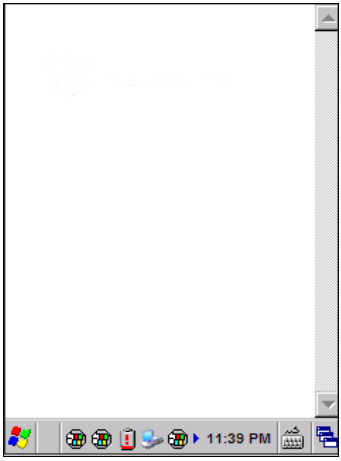


Figure 9 - Application Selector

The administrator can customize this list as shown in chapter 4.10.5.

To run an application, tap on its name.

Additionally, the page template can be modified to display a different background. Contact your Datalogic representative for more information on this feature.

To exit from Application Selector, press ALT + 6, uncheck the 'Enable Application Selector' check box on the AppSelect Tab and press OK to exit DDU.

5 TECHNICAL FEATURES

5.1 TECHNICAL DATA

PHYSICAL CHARACTERISTICS	
DIMENSIONS (LxWxH)	15.2 x 5.5 x 4.0 cm / 5.9 x 2.2 x 1.6 in
WEIGHT (DEPENDING ON MODEL)	220 g / 7.76 oz (incl. 1100 mAH battery) 250 g / 8.81 oz (incl. 2000 mAH battery)
AUDIO	Rear Speaker for beeps and ringing tones Microphone and Front Speaker for phone calls Headset
LEDS	Two-color Good Read/Programmable Charging Status
DISPLAY	64K Color TFT LCD with 320 x 240 pixel resolution (QVGA), with LED backlight and touch screen, antiglare and antiscratch protection
KEYBOARD	23 Plastic Top - Backlit Keys + Joystick + lateral ON/OFF key
OPERATING TEMPERATURE*	0° to +50 °C / 32 °F to +122 °F
STORAGE TEMPERATURE	-20° to +70 °C / -4° to +158 °F
HUMIDITY**	10 to 80% non condensing for temperatures < 38 °C
DROP RESISTANCE***	1.2 M / 3.9 FT
ENVIROMENTAL SEALING	IP54
ESD PROTECTION	4 KV contact discharge, 8 KV air discharge

* Battery should be charged at an ambient temperature between 0 - 40º C to achieve the maximum charging rate. Never charge the main device or spare batteries in a closed space where excessive heat can build up.

Close to the limits of the working temperature, some display and/or battery performance degradation may occur.

** Multiple rapid humidity and/or temperature variations may cause condensing.

*** Multiple drops can permanently damage the device.

SYSTEM			
OPERATING SYSTEM	Windows CE 5.0 Professional		
MICROPROCESSOR	Marvell XScale™ PXA310 @ 624 MHz		
SYSTEM RAM MEMORY	128 MB		
SYSTEM FLASH MEMORY	256 MB		
POWER SUPPLY*			
DC Supply	5 V ± 5%		
Battery Pack	1 cell Li-Pol or Li-Ion 1100 mAh@3.7 V (nominal) Alternatively 1 cell Li-Pol or Li-Ion 2000 mAh@3.7 V (nominal)		
Internal Backup Battery	Rechargeable Ni-MH 30 mAh (2 x 15 mAh cells)		
COMMUNICATIONS			
INTERFACES	Bluetooth® Interface		COM5
	Serial Interface	RS232 USB 1.1	COM1 COM6
LOCAL AREA NETWORK (LAN)	Summit IEEE 802.11abg Frequency range: Country dependent, typically 2.4 and 5.2 GHz CCX v4 Security		
PERSONAL AREA NETWORK (PAN)	Bluetooth® IEEE 802.15, Class 2, Version 2.0		

* Use only DL approved battery packs power adapters.

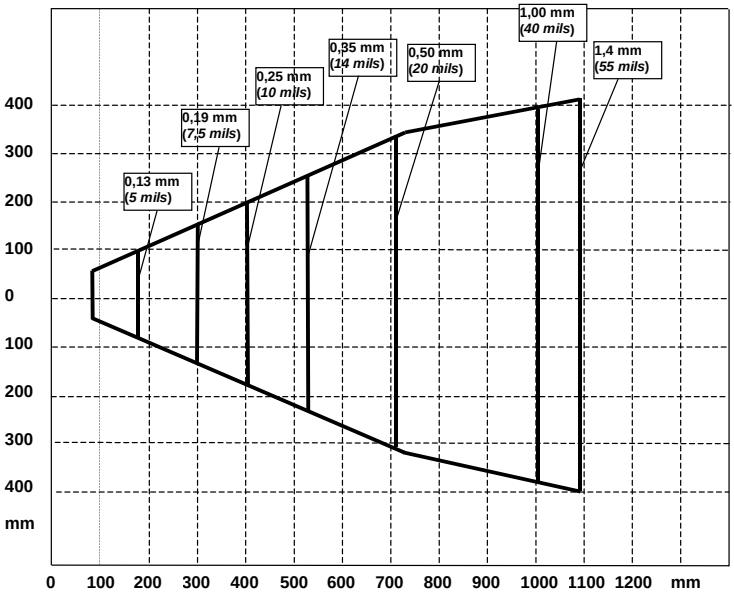
READING OPTIONS	
LASER CHARACTERISTICS	
SCANNING RATE - BIDIRECTIONAL	104 ± 12 scan/sec
OPTICAL RESOLUTION	0.10 mm / 4 mils
SKEW ANGLE	± 50°
PITCH ANGLE	± 65°
LASER READER	VLD, wavelength 630~680 nm
BAR CODES	UPC A, UPC E, EAN 8, EAN 13, Code 39, Code 39 Full ASCII, Code 32, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Code 128, EAN 128, Codabar, MSI, Plessey, Code 93, Code 11, GS1 Databar
LASER CLASSIFICATION	Laser: Class 2 Safety class EN 60825-1:2001
LED CLASSIFICATION	Led (Green Spot): Class 1
IMAGER CHARACTERISTICS	
SCANNING RATE	60 frames/sec
OPTICAL RESOLUTION	0.13 mm / 5 mils
AIMING LASER	VLD, wavelength 645~665 nm
BAR CODES	Decoded barcodes 1D: UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 39, Code 39 Full ASCII, Codabar, Code 128, EAN 128, Code 93, GS1 Databar, MSI, Bookland EAN, ISSN EAN; Matrix 2 of 5, Standard 2 of 5
	Decoded barcodes 2D: PDF417, DataMatrix, QR, MicroPDF, RSS, Maxicode, Aztec
	Postal codes: POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail Code (RM4SCC), Intelligent mail, UPU FICS

READING OPTIONS	
LASER CLASSIFICATION	Laser: Class 2 Safety class: N 60825-1:2001
LED CLASSIFICATION	Led (Illuminator): Class 1M
ILLUMINATION SYSTEM	LEDs 620~630 nm

5.2 READING DIAGRAMS

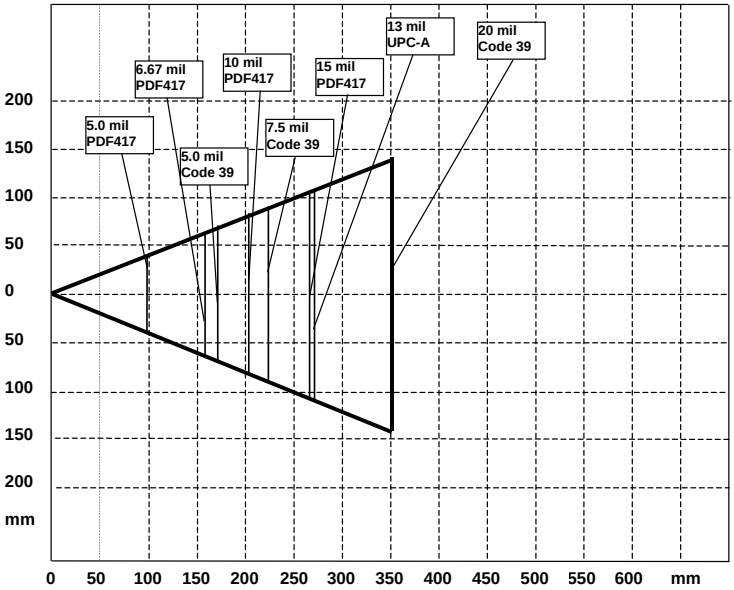
Datalogic Memor 1D

Typical Reading Diagram - Reading Zones (10° skew angle)



Datalogic Memor SE4500-DL

Typical Reading Diagram - Reading Zones (10° skew angle)



6 TEST CODES

High Density Codes

0.25 mm (10 mils)

Code 39

17162

2/5 Interleaved

0123456784

Code 128

test

80%

EAN 13

80%

EAN 8

Medium Density Codes

0.38 mm (15 mils)

Code 39

17162

Interleaved 2/5

0123456784

Code 128

test

100%

EAN 13

100%

EAN 8

Low Density Codes

0.50 mm (20 mils)

Code 39

17162

Interleaved 2/5

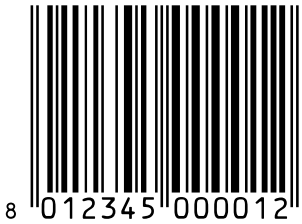
0123456784

Code 128

test

120%

EAN 13



120%

EAN 8

2D Codes

Datamatrix ECC200

Example

Inverse
Datamatrix ECC200

Example

SAFETY REGULATIONS

NOTE

Read this manual carefully before performing any type of connection to the Datalogic Memor mobile computer.

The user is responsible for any damage caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.

GENERAL SAFETY RULES

- Use only the components supplied by the manufacturer for the specific Datalogic Memor being used.
- Do not attempt to disassemble the Datalogic Memor mobile computer, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the Datalogic Memor mobile computer, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Before using the devices and the battery packs, read chap. 2.
- Do not submerge the Datalogic Memor in liquid products.
- For further information, refer to this manual and to the Datalogic web site: www.datalogic.com.

POWER SUPPLY

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the Datalogic Memor or else be supplied by a UL Listed/CSA Certified Power Unit marked “Class 2” or LPS power source rated 5 V, 3.0 A, which supplies power directly to the Datalogic Memor via the power connector of the cable.

The package includes three international plug adapters. The adapters must be plugged in the power supply before the power supply itself is plugged on the wall outlet.

LASER SAFETY

The laser light is visible to the human eye and is emitted from the window indicated in the figure.

This information applies to both laser models and the Datalogic Memor Imager Aiming System.

I	D	F	E
La luce laser è visibile all'occhio umano e viene emessa dalla finestra indicata nella figura.	Die Laserstrahlung ist für das menschliche Auge sichtbar und wird am Strahlaustrittsfenster ausgesendet (siehe Bild).	Le rayon laser est visible à l'oeil nu et il est émis par la fenêtre désignée sur l'illustration dans la figure.	La luz láser es visible al ojo humano y es emitida por la ventana indicada en la figura.
LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MASSIMA POTENZA DI USCITA: 1 mW LUNGHEZZA D'ONDA EMESSA: 630~680 nm CONFORME A EN 60825-1 (2007)	LASERSTRAHLUNG NICHT IN DER STRAHL BLINKEN PRODUKT DER LASERKLASSE 2 MAXIMALE AUSGANGLEISTUNG: 1 mW WELLENLÄNGE: 630~680 nm ENTSPR. EN 60825-1 (2007)	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 MAXIMUM PUISSANCE DE SORTIE: 1 mW LONGUER D'ONDE EMISE: 630~680 nm CONFORME A EN 60825-1 (2007)	RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSER DE CLASE 2 MÁXIMA POTENCIA DE SALIDA: 1 mW LONGITUD DE ONDA EMITIDA: 630~680 nm CONFORME A EN 60825-1 (2007)

ENGLISH

The following information is provided to comply with the rules imposed by international authorities and refers to the correct use of your mobile computer.

STANDARD LASER SAFETY REGULATIONS
This product conforms to the applicable requirements of both CDRH 21 CFR 1040 Subchapter J and EN 60825-1:2007 at the date of manufacture.
For installation, use and maintenance, it is not necessary to open the device.

CAUTION

Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations. The optics system is a factory only repair item.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible laser light.

The product utilizes a low-power laser diode. Although staring directly at the laser beam momentarily causes no known biological damage, avoid staring at the beam as one would with any very strong light source, such as the sun. Avoid shining laser light into any person's eye, even through reflective surfaces such as mirrors, etc.

CAUTION

Use of optical systems with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, eye glasses and magnifying glasses.

ITALIANO

Le seguenti informazioni vengono fornite dietro direttive delle autorità internazionali e si riferiscono all'uso corretto del terminale.

NORMATIVE STANDARD PER LA SICUREZZA LASER
Questo prodotto risulta conforme alle normative vigenti sulla sicurezza laser alla data di produzione: CDRH 21 CFR 1040 sezione J e EN 60825-1:2007.
Non si rende mai necessario aprire l'apparecchio per motivi di installazione, utilizzo o manutenzione.

ATTENZIONE

Non tentare di accedere allo scomparto contenete i componenti ottici o di farne la manutenzione.

L'apertura dello scomparto, o la manutenzione di qualsiasi parte ottica da parte di personale non autorizzato, potrebbe violare le norme della sicurezza. Il sistema ottico può essere riparato solamente alla fabbrica.

ATTENZIONE

L'utilizzo di procedure o regolazioni differenti da quelle descritte nella documentazione può provocare un'esposizione pericolosa a luce laser visibile.

Il prodotto utilizza un diodo laser a bassa potenza. Sebbene non siano noti danni riportati dall'occhio umano in seguito ad una esposizione di breve durata, evitare di fissare il raggio laser così come si eviterebbe qualsiasi altra sorgente di luminosità intensa, ad esempio il sole. Evitare inoltre di dirigere il raggio laser negli occhi di un osservatore, anche attraverso superfici riflettenti come gli specchi.

ATTENZIONE

L'uso di strumenti ottici assieme allo scanner può aumentare il pericolo di danno agli occhi. Tali strumenti ottici includono cannocchiali, microscopi, occhiali e lenti di ingrandimento.

DEUTSCH

Die folgenden Informationen stimmen mit den Sicherheitshinweisen überein, die von internationalen Behörden auferlegt wurden, und sie beziehen sich auf den korrekten Gebrauch vom Terminal.

NORM FÜR DIE LASERSICHERHEIT
Dies Produkt entspricht am Tag der Herstellung den gültigen EN 60825-1:2007 und CDRH 21 CFR 1040 Subchapter J Normen für die Lasersicherheit.
Es ist nicht notwendig, das Gerät wegen Betrieb oder Installations-, und Wartungs-Arbeiten zu öffnen.

ACHTUNG

Unter keinen Umständen darf versucht werden, die Komponenten im Optikhohlraum zu öffnen oder auf irgendwelche andere Weise zu warten. Das Öffnen bzw. Warten der Komponenten im Optikhohlraum durch unbefugtes Personal verstößt gegen die Laser-Sicherheitsbestimmungen. Das Optiksystem darf nur werkseitig repariert werden.

ACHTUNG

Jegliche Änderungen am Gerät sowie Vorgehensweisen, die nicht in dieser Betriebsanleitung beschrieben werden, können ein gefährliches Laserlicht verursachen.

Der Produkt benutzt eine Laserdiode. Obwohl zur Zeit keine Augenschäden von kurzen Einstrahlungen bekannt sind, sollten Sie es vermeiden für längere Zeit in den Laserstrahl zu schauen, genauso wenig wie in starke Lichtquellen (z.B. die Sonne). Vermeiden Sie es, den Laserstrahl weder gegen die Augen eines Beobachters, noch gegen reflektierende Oberflächen zu richten.

ACHTUNG

Die Verwendung von Optiksystemen mit diesem Scanner erhöht die Gefahr einer Augenbeschädigung. Zu optischen Instrumenten gehören unter anderem Ferngläser, Mikroskope, Brillen und Vergrößerungsgläser.

FRANÇAIS

Les informations suivantes sont fournies selon les règles fixées par les autorités internationales et se réfèrent à une correcte utilisation du terminal.

NORMES DE SECURITE LASER
Ce produit est conforme aux normes de sécurité laser en vigueur à sa date de fabrication: CDRH 21 CFR 1040 sous-chapitre J et EN 60825-1:2007.
Il n'est pas nécessaire d'ouvrir l'appareil pour l'installation, l'utilisation ou l'entretien.

ATTENTION

Ne pas essayer d'ouvrir ou de réparer les composants de la cavité optique. L'ouverture de la cavité optique ou la réparation de ses composants par une personne non qualifiée peut entraîner le nonrespect des règles de sécurité relatives au laser. Le système optique ne peut être réparé qu'en usine.

ATTENTION

L'utilisation de procédures ou réglages différents de ceux donnés ici peut entraîner une dangereuse exposition à lumière laser visible.

Le produit utilise une diode laser. Aucun dommage aux yeux humains n'a été constaté à la suite d'une exposition au rayon laser. Eviter de regarder fixement le rayon, comme toute autre source lumineuse intense telle que le soleil. Eviter aussi de diriger le rayon vers les yeux d'un observateur, même à travers des surfaces réfléchissantes (miroirs, par exemple).

ATTENTION

L'utilisation d'instruments optiques avec le scanneur augmente le danger pour les yeux. Les instruments optiques comprennent les jumelles, les microscopes, les lunettes et les verres grossissants.

ESPAÑOL

Las informaciones siguientes son presentadas en conformidad con las disposiciones de las autoridades internacionales y se refieren al uso correcto del terminal.

NORMATIVAS ESTÁNDAR PARA LA SEGURIDAD LÁSER
Este aparato resulta conforme a las normativas vigentes de seguridad láser a la fecha de producción: CDRH 21 CFR 1040 Sección J y EN 60825-1:2007.
No es necesario abrir el aparato para la instalación, la utilización o la manutención.

ATENCIÓN

No intente abrir o de ninguna manera dar servicio a ninguno de los componentes del receptáculo óptico. Abrir o dar servicio a las piezas del receptáculo óptico por parte del personal no autorizado podría ser una violación a los reglamentos de seguridad. El sistema óptico se puede reparar en la fábrica solamente.

ATENCIÓN

La utilización de procedimientos o regulaciones diferentes de aquellas describidas en la documentación puede causar una exposición peligrosa a la luz láser visible.

El aparato utiliza un diodo láser a baja potencia. No son notorios daños a los ojos humanos a consecuencia de una exposición de corta duración. Eviten de mirar fijo el rayo láser así como evitarían cualquiera otra fuente de luminosidad intensa, por ejemplo el sol. Además, eviten de dirigir el rayo láser hacia los ojos de un observador, también a través de superficies reflectantes como los espejos.

ATENCIÓN

El uso de sistemas ópticos con el escáner aumentará el riesgo de daños oculares. Los instrumentos ópticos incluyen binoculares, microscopios, lentes y lupas.

LED CLASS

According to EN60825-1:2001, the Datalogic Memor 1D models which use the green spot LED are also CLASS 1 LED PRODUCTS.

APPARECCHIO LED CLASSE 1 IEC
PRODUKT LED KLASSE 1 IEC
PRODUIT LED DE CLASSE 1 IEC
PRODUCTO LED DE CLASE 1 IEC

According to EN60825-1:2001, the Datalogic Memor 2D models which use the illuminator LED are also CLASS 1M LED PRODUCTS.

LED LIGHT
DO NOT VIEW DIRECTLY
WITH OPTICAL INSTRUMENTS
CLASS 1M LED PRODUCT

LUCE LED
NON OSSERVARE DIRETTAMENTE
CON STRUMENTI OTTICI
APPARECCHIO LED DI CLASSE 1M

LAMPE LED
NE PAS OBSERVER DIRECTEMENT
AVEC INSTRUMENTS OPTIQUES
APPAREIL LED DE CLASSE 1M

LUZ LED
NO OBSERVAR DIRECTAMENTE
CON INSTRUMENTOS ÓPTICOS.
PRODUCTO LED DE CLASE 1M

LED-LICHT
NICHT DIREKT MIT OPTISCHEN
INSTRUMENTEN BETRACHTEN.
GERÄTEKLASSE 1M.

RADIO COMPLIANCE

In radio systems configured with mobile computers and access points, the frequencies to be used must be allowed by the spectrum authorities of the specific country in which the installation takes place. Be absolutely sure that the system frequencies are correctly set to be compliant with the spectrum requirements of the country.
The Radio modules used in this product automatically adapt to the frequencies set by the system and do not require any parameter settings.

The following shows the correspondence between the Datalogic Memor models and the Radio components:

- DL-Memor+802.11+BT models: 802.11a/b/g and BT radio modules

CE 0700 !

Information for the User

ENGLISH

Contact the competent authority responsible for the management of radio frequency devices of your country to verify any possible restrictions or licenses required. Refer to the web site http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/ for further information.

ITALIANO

Contatta l'autorità competente per la gestione degli apparati a radio frequenza del tuo paese, per verificare eventuali restrizioni o licenze. Ulteriori informazioni sono disponibili sul sito:
http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/.

FRANÇAIS

Contactez l'autorité compétente en la gestion des appareils à radio fréquence de votre pays pour vérifier d'éventuelles restrictions ou licences. Pour tout renseignement vous pouvez vous adresser au site web:
http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/.

DEUTSCH

Wenden Sie sich an die für Radiofrequenzgeräte zuständige Behörde Ihres Landes, um zu prüfen ob es Einschränkungen gibt, oder eine Lizenz erforderlich ist. Weitere Informationen finden Sie auf der Web Seite:
http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/.

ESPAÑOL

Contacta la autoridad competente para la gestión de los dispositivos de radio frecuencia de tu país, para verificar cualesquiera restricciones o licencias posibles requerida. Además se puede encontrar mas información en el sitio web:
http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/.

FCC COMPLIANCE

FCC Regulations

- 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.

- This device 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 radiated 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 or more of the following measures:

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

  Changes or modifications not expressly approved by the party responsible for compliance could void the user‘s authority to operate the equipment.

- The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

- This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

RF EXPOSURE INFORMATION (SAR)

This model device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the model device as reported to the FCC are the following:

- DL-Memor + 802.11 + BT models: for use at the head is 1.32 W/Kg and when worn on the body, as described in the user guide, is 0.518 W/Kg. (Body-worn measurements differ among device models, depending upon available enhancements and FCC requirements).

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on the below FCC ID:
FCC ID: U4GA030 for DL-Memor+802.11+BT models.

This device is compliant with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the device at the ear, position the handset a minimum of 1.5 cm from your body when the device is switched on.

INDUSTRY CANADA COMPLIANCE

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

The County Code Selection feature is disabled for products marketed in the US/Canada.

IMPORTANT NOTE:
IC Radiation Exposure Statement
This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment should be installed and operated with minimum distance 1,5cm between the radiator & your body.

Be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

SAR COMPLIANCE

This product has been tested and found to comply with the following standards:

- OET BULLETIN 65 SUPPLEMENT C: evaluating compliance with FCC guidelines for human exposure to radio frequency electromagnetic fields.

- EN 62311:2008: assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).

WEEE COMPLIANCE

Informazione degli utenti ai sensi della Direttiva Europea 2002/96/EC

L'apparecchiatura che riporta il simbolo del bidone barrato deve essere smaltita, alla fine della sua vita utile, separatamente dai rifiuti urbani.

Smaltire l'apparecchiatura in conformità alla presente Direttiva consente di:

- evitare possibili conseguenze negative per l'ambiente e per la salute umana che potrebbero invece essere causati dall'errato smaltimento dello stesso;
- recuperare materiali di cui è composto al fine di ottenere un importante risparmio di energia e di risorse.

Per maggiori dettagli sulle modalità di smaltimento, contattare il Fornitore dal quale è stata acquistata l'apparecchiatura o consultare la sezione dedicata sul sito http://www.datalogic.com.

Information for the user in accordance with the European Commission Directive 2002/96/EC

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste.

Disposing of the product according to this Directive:

- avoids potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal
- enables the recovery of materials to obtain a significant savings of energy and resources.

For more detailed information about disposal, contact the supplier that provided you with the product in question or consult the dedicated section at the website http://www.datalogic.com.

Information aux utilisateurs concernant la Directive Européenne 2002/96/EC

Au terme de sa vie utile, le produit qui porte le symbole d'un caisson à ordures barré ne doit pas être éliminé avec les déchets urbains.

Éliminer ce produit selon cette Directive permet de:

- éviter les retombées négatives pour l'environnement et la santé dérivant d'une élimination incorrecte
- récupérer les matériaux dans le but d'une économie importante en termes d'énergie et de ressources

Pour obtenir des informations complémentaires concernant l'élimination, veuillez contacter le fournisseur auprès duquel vous avez acheté le produit ou consulter la section consacrée au site Web http://www.datalogic.com.

Información para el usuario de accuerdo con la Directiva Europea 2002/96/CE

Al final de su vida útil, el producto marcado con un simbolo de contenedor de bassura móvil tachado no debe eliminarse junto a los desechos urbanos.

Eliminar este producto de accuerdo con la Directiva permite de:

- evitar posibles consecuencias negativas para el medio ambiente y la salud derivadas de una eliminación inadecuada
- recuperar los materiales obteniendo así un ahorro importante de energía y recursos

Para obtener una información más detallada sobre la eliminación, por favor, póngase en contacto con el proveedor donde lo compró o consultar la sección dedicada en el Web site http://www.datalogic.com.

Benutzerinformation bezüglich Richtlinie 2002/96/EC der europäischen Kommission

Am Ende des Gerätelebenszyklus darf das Produkt nicht über den städtischen Hausmüll entsorgt werden. Eine entsprechende Mülltrennung ist erforderlich.

Beseitigung des Produkts entsprechend der Richtlinie:

- verhindert negative Auswirkungen für die Umwelt und die Gesundheit der Menschen
- ermöglicht die Wiederverwendung der Materialien und spart somit Energie und Resourcen

Weitere Informationen zu dieser Richtlinie erhalten sie von ihrem Lieferanten über den sie das Produkt erworben haben, oder besuchen sie unsere Hompage unter http://www.datalogic.com.

CHINA ROHS POLLUTION CONTROL LOGOS

Part name	Toxic or Hazardous Substances and Elements for DL-MEMOR					
	Pb	Hg	Cd	Cr6+	PBB	PBDE
Upper Case	O	O	O	O	O	O
Lower Case	O	O	O	O	O	O
Touch Panel	O	O	O	O	O	O
PCB Board	O	O	O	O	O	O
Laser Engine	X	O	O	O	O	O
Imager Engine	O	O	O	O	O	O
BT Module (Note 1)	O	O	O	O	O	O
802.11 a/b/g Radio Module (Note 1)	O	O	O	O	O	O

99% of the parts of this product adopt the nonpoisonous and harmless environmental protection material to make, the part with poisonous harmful substance or the element is all unable to realize the substitution of the poisonous harmful thing or the element because the global technological development level is limited.

O: Indicates that this is a toxic or hazardous substance contained in all of the homogenous materials for this part is below the limit requirement in SJ/T11363-2006.

X: Indicates that this is toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.

Note 1: It is only for 944201038, 944201039, 944201040, 944201041.

GLOSSARY

Access Point
A device that provides transparent access between Ethernet wired networks and IEEE 802.11 interoperable radio-equipped mobile units. Hand-held mobile computers, PDAs or other devices equipped with radio cards, communicate with wired networks using Access Points (AP). The mobile unit (mobile computer) may roam among the APs in the same subnet while maintaining a continuous, seamless connection to the wired network.

Applet
Diminutive form of app (application), it refers to simple, single-function programs that often ship with a larger product. Programs such as Windows' Calculator, File Manager, Control Panel and Notepad are examples of applets.

Bar Code
A pattern of variable-width bars and spaces which represents numeric or alphanumeric data in binary form. The general format of a barcode symbol consists of a leading margin, start character, data or message character, check character (if any), stop character, and trailing margin. Within this framework, each recognizable symbology uses its own unique format.

Baud Rate
A measure for data transmission speed.

Bit
Binary digit. One bit is the basic unit of binary information. Generally, eight consecutive bits compose one byte of data. The pattern of 0 and 1 values within the byte determines its meaning.

Bluetooth®
A standard radio technology using a proprietary protocol. The onboard Bluetooth® module in the device is compatible with the 2.1 protocol with Enhanced Data Rate (EDR).

Byte
On an addressable boundary, eight adjacent binary digits (0 and 1) combined in a pattern to represent a specific character or numeric value. Bits are numbered from the right, 0 through 7, with bit 0 the low-order bit. One byte in memory can be used to store one ASCII character.

Decode
To recognize a bar code symbology *(e.g.,* Codabar, Code 128, Code 3 of 9, UPC/EAN, etc.) and convert the content of the bar code scanned from a visual pattern into electronic data.

Depth of Field (DOF)
The portion of a scene that appears acceptably sharp in the image. Although a lens can precisely focus at only one distance, the decrease in sharpness is gradual on each side of the focused distance, so that within the DOF, the unsharpness is imperceptible under normal viewing conditions.

EEPROM
Electrically Erasable Programmable Read-Only memory. An on-board non-volatile memory chip.

Ethernet
The standard local area network (LAN) access method. A reference to "LAN," "LAN connection" or "network card" automatically implies Ethernet. Defined by the IEEE as the 802.3 standard, Ethernet is used to connect computers in a company or home network as well as to connect a single computer to a cable modem or DSL modem for Internet access.

Firmware
Firmware is a software program or set of instructions programmed on a hardware device. It provides the necessary instructions for how the device communicates with the other computer hardware. Firmware is typically stored in the flash ROM of a hardware device. While ROM is "read-only memory," flash ROM can be erased and rewritten because it is actually a type of flash memory.

Flash Disk
Non-volatile memory for storing application and configuration files.

Host
A computer that serves other mobile computers in a network, providing services such as network control, database access, special programs, supervisory programs, or programming languages.

IEEE 802.11
A set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, 3.6 and 5 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

Light Emitting Diode (LED)
A low power electronic light source commonly used as an indicator light. It uses less power than an incandescent light bulb but more than a Liquid Crystal Display (LCD).

Liquid Crystal Display (LCD)
A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to reflect light outside according to their bias. They use little electricity and react relatively quickly. They require external light to reflect their information to the user.

Null modem cable
RS-232 serial cable where the transmit and receive lines are crosslinked. In some cables there are also handshake lines crosslinked. In many situations a straight through serial cable is used, together with a null modem adapter. The adapter contains the necessary crosslinks between the signals.

One shot key
Pressing a one shot key actives the state. The state remains active until any other key is pressed. If you hold down a one shot state key and you press another key the state will remain active until you release the one-shot key.

Pairing
A Bluetooth® pairing occurs when two Bluetooth® devices agree to communicate with each other and establish a connection.

Piconet
A piconet is a Bluetooth® PAN that links up to eight devices. Each piconet is controlled by one master device, and up to seven slave devices at any one time. Any device may be a member of more than one piconet, changing its membership as a user moves from one area to another.

RAM

Random Access Memory. Data in RAM can be accessed in random order, and quickly written and read.

RF

Radio Frequency.

RTC

Real Time Clock.

TDMA

Time division multiple access (TDMA) is digital transmission technology that allows a number of users to access a single radio-frequency (RF) channel without interference by allocating unique time slots to each user within each channel. The TDMA digital transmission scheme multiplexes three signals over a single channel. The current TDMA standard for cellular divides a single channel into six time slots, with each signal using two slots, providing a 3 to 1 gain in capacity over advanced mobile-phone service (AMPS). Each caller is assigned a specific time slot for transmission.

Toggle key

Pressing a toggle key activates the state. The state remains active until the toggle key is pressed again.

USB

Universal Serial Bus. Type of serial bus that allows peripheral devices (disks, modems, printers, digitizers, data gloves, etc.) to be easily connected to a computer. A “plug-and-play” interface, it allows a device to be added without an adapter card and without rebooting the computer (the latter is known as hot-plugging). The USB standard, developed by several major computer and telecommunications companies, supports data-transfer speeds up to 12 megabits per second, multiple data streams, and up to 127 peripherals.

WLAN

A Wireless Local Area Network links devices via a wireless distribution method (typically spread-spectrum or OFDM radio), and usually provides a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network.

WPAN

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters - in other words, a very short range.

INDEX

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LIMITS AND METHODS OF MEASUREMENTS

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EN50581:2012 *TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES*

Lippo di Calderara di Reno, April 12th 2013

Ruggero Cacioppo
Quality & Reliability Manager
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ETSI EN 301 489-1 v1.9.2, September 2011	*Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements*
ETSI EN 301 489-17 v2.1.1, May 2009	*Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmitting Systems*
EN 55022:2010 (Class B ITE)	*Information technology equipment* *Radio disturbance characteristics* *Limits and methods of measurements*
EN 55024:2010	*Information technology equipment* *Immunity characteristics* *Limits and methods of measurement*

ETSI EN 300 328 V1.7.1, OCTOBER 2006	*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); WIDEBAND TRANSMISSION SYSTEMS; DATA TRANSMISSION EQUIPMENT OPERATING IN THE 2,4GHZ ISM BAND AND USING WIDE BAND MODULATION TECHNIQUES; HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE*
ETSI EN 301 893 V1.6.1, NOVEMBER 2011	*BROADBAND RADIO ACCESS NETWORKS (BRAN); 5 GHZ HIGH PERFORMANCE RLAN; HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE*
EN 60950-1:2006 **AMENDMENT A1:2010**	*INFORMATION TECHNOLOGY EQUIPMENT - SAFETY - PART 1 : GENERAL REQUIREMENTS*
EN50581:2012	*TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES*

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