Datalogic Memor™

User's Manual

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Datalogic Memor™ - User's Manual

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CONTENTS

DATALOGIC END USER LICENSE AGREEMENT v

REFERENCES vii
Conventions vii
Reference Documentation vii
Services and Support vii

SAFETY REGULATIONS viii
General Safety Rules viii
Bluetooth® Approval viii
Power Supply viii
Laser Safety ix
Radio Compliance xiv
FCC Compliance xv
SAR Compliance xv
Patents xv
WEEE Compliance xvi
China RoHS Pollution Control Logos xviii

GENERAL VIEW xix

1 INTRODUCTION 1
1.1 Datalogic Memor™ Description 1
1.2 Model Description 1
1.3 Package Contents 2
1.4 Inserting an SD Card 3
1.5 Accessories 4

2 CONNECTIONS 5
2.1 USB Connection 5
2.2 RS232 Connection 6
2.3 Ethernet Connection 7
2.4 WLAN Connection 8
2.5 WPAN Connections 10
2.6 Connection Cables 11

3 USE AND FUNCTIONING 12
3.1 Startup 12
3.1.1 Using the Stylus 14
3.1.2 Using the Joystick 15
3.2 Data Capture 16
3.2.1 Laser Data Capture 16
3.3 Description of the Keys 17
3.3.1 Resetting the Memor™ 19
3.4 Status Indicators 21
3.4.1 LED Status 21
3.4.2 Taskbar 21
3.5 Data Capture Configuration 23
3.5.1 Configure 23

3.5.2 Capture ... 28
3.6 Control Panel ... 29
3.6.1 Buttons ... 29
3.6.2 Registry ... 30
3.6.3 Files Admin ... 31
3.6.4 Wireless Communications ... 33
3.6.5 Ethernet Settings ... 34
3.6.6 Stylus Calibration ... 35
3.7 Windows Connections ... 37
3.7.1 Microsoft® ActiveSync® ... 37
3.7.2 Bluetooth® Manager Device Setup ... 39
3.7.3 FTP Server Setup ... 42
3.8 Backup Directory File Management ... 43
3.9 Firmware Update ... 44

4 MAINTENANCE ... 47
4.1 Connecting the Backup Battery ... 47
4.2 Charging the Battery Pack ... 49
4.3 Replacing the Battery Pack ... 50
4.4 Cleaning the Mobile Computer ... 53

5 TECHNICAL FEATURES ... 54
5.1 Technical Data ... 54
5.2 Reading Diagram ... 56

6 TEST CODES ... 57

GLOSSARY ... 60

INDEX ... 62

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DATALOGIC™

Microsoft® Windows® Powered

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 Cradle” refers to both Datalogic Memor™ Single Cradle and Datalogic Memor™ Single Ethernet Cradle.

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.
Log on to **www.mobile.datalogic.com** and click on the links indicated for further information including:

- **PRODUCTS**

  Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities**

- **SERVICES & SUPPORT**

  - **Datalogic Services** Warranty Extensions and Maintenance Agreements
  - **Authorised Repair Centres**

- **CONTACT US**

  E-mail form and listing of Datalogic Subsidiaries

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 damages 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. See also par. 4.3.
- Do not submerge the Datalogic Memor™ in liquid products.

BLUETOOTH® APPROVAL

This product is equipped with the following certified Bluetooth® module:

Product Name: Pocket-Sized Mobile Computer

Bluetooth ID: B03720

Product ID: DL-Memor 001-904-416

POWER SUPPLY

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

I	D	F	E
LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MINIMA POTENZA DI USCITA: LUNGHEZZA D'ONDA EMESSA: CONFORME A EN 60825-1 (2001)	LASERSTRAHLUNG NICHT IN DER STRAHL BLINKEN PRODUKT DER LASERKLASSE 2 MAXIMALE AUSGANGLEISTUNG: WELLENLÄNGE: ENTSPR. EN 60825-1 (2001)	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 PUISSANCE DE SORTIE: LONGUER D'ONDE EMISE: CONFORME A EN 60825-1 (2001)	RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSER DE CLASE 2 MÁXIMA POTENCIA DE SALIDA: LONGITUD DE ONDA EMITIDA: CONFORME A EN 60825-1 (2001)

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 and EN 60825-1 at the date of manufacture.
For installation, use and maintenance, it is not necessary to open the device.

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 that the laser beam hits the eye of an observer, even through reflective surfaces such as mirrors, etc.

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 e EN 60825-1.
Non si rende mai necessario aprire l'apparecchio per motivi di installazione, utilizzo o manutenzione.

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.

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 und CDRH 21 CFR 1040 Normen für die Lasersicherheit.
Es ist nicht notwendig, das Gerät wegen Betrieb oder Installations-, und Wartungs-Arbeiten zu öffnen.

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.

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 et EN 60825-1.
Il n'est pas nécessaire d'ouvrir l'appareil pour l'installation, l'utilisation ou l'entretien.

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).

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 y EN 60825-1.
No es necesario abrir el aparato para la instalación, la utilización o la manutención.

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.

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

- Datalogic Memor™ 6XX-XXX-XXX 802.11b/g radio
- Datalogic Memor™ 8XX-XXX-XXX 802.11b/g radio

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://europa.eu.int/comm/enterprise/rtte/spectr.htm for further information.

ITALIANO

Prendi contatto con 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://europa.eu.int/comm/enterprise/rtte/spectr.htm.

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://europa.eu.int/comm/enterprise/rtte/spectr.htm.

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://europa.eu.int/comm/enterprise/rtte/spectr.htm.

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://europa.eu.int/comm/enterprise/rtte/spectr.htm.

CE

FCC COMPLIANCE

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use the equipment.

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

FCC ID:

U4G0024 for 600-XXX-XXX 802.11 b/g models.
U4G0018 for 001-XXX-XXX Bluetooth® models.
U4G0025 for 800-XXX-XXX 802.11 b/g models.

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.

PATENTS

This product is covered by one or more of the following patents.
Design Pat. AU 310182 S; CN 658612; HK 0601962.6; KR 30-0466667; TW D118829.
US Pat. 5,992,740; European Pat. 789,315 B1. Additional patents pending.

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 www.mobile.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 www.mobile.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 www.mobile.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 www.mobile.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 www.mobile.datalogic.com.

CHINA ROHS POLLUTION CONTROL LOGOS

Part name	Toxic or Hazardous Substances and Elements					
	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
BT Module (Note 1)	O	O	O	O	O	O
WiFi Module (Note 2)	O	O	O	O	O	O
WiFi Module (Note 3)	O	O	O	O	O	O

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 DL-MEMOR 001-904-416 Model.

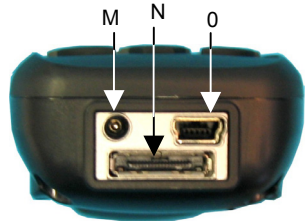
Note 2: It is only for DL-MEMOR 600-904-416 Model.

Note 3: It is only for DL-MEMOR 800-904-416 Model.

Note 4: 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.

GENERAL VIEW

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



L) Data Capture/Laser Output Window *
M) DC Charger Connector
N) Communication/Charger Connector (through cradle)
O) Mini USB Communication/Charger Connector (through cable)

- Remove protective film cover before use

1 INTRODUCTION

1.1 DATALOGIC MEMOR™ DESCRIPTION

The Datalogic Memor™ is a pocket-sized Windows powered mobile computer.

This extremely compact, lightweight, and versatile device, combines fully integrated automatic data capture (1D bar code) and wireless communication capabilities (Bluetooth® or 802.11 b/g), supporting nearly any application.

The Datalogic Memor™ system architecture is based on the blend of Intel X-Scale series processors coupled with the Windows CE operating system and it was developed to meet the most demanding customer needs.

A huge quantity of on-board memory is available and the possibility to expand it through an externally accessible SD card slot, enables the user to adapt the terminal for any specific need.

A customized layout keyboard and a sharp and brilliant touch screen display make the Datalogic Memor™ an easy-to-use tool for your daily work.

Thanks to its great ergonomics and the state of the art architecture, the Datalogic Memor™ is the right answer to enhance your business opportunities.

1.2 MODEL DESCRIPTION

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

- communication options: 802.11 b/g radio, Bluetooth®
- capture options: Laser

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

1.3 PACKAGE CONTENTS

The Datalogic Memor™ package contains:

- 1 Datalogic Memor™ mobile computer
- 1 AC/DC power supply
- 1 EU plug adapter
- 1 AUS. Plug Adapter
- 1 UK Plug Adapter
- 1 standard Mini USB cable
- 1 CD-ROM Datalogic SDK
- 1 extensible stylus
- 1 user's manual
- 1 rechargeable standard 1000 mAh battery pack + cover
- 1 hand-strap with stylus holder

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 congruity 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 backup batteries and battery packs are not initially charged. Therefore the initial operation to perform is to charge them. See paragraphs 4.1 and 4.2.

1.4 INSERTING AN SD CARD

Datalogic Memor™ provides the possibility to add an SD memory storage card. To access the SD card slot and to insert the card, proceed as follows:

1. Extract the SD card slot cover from side of the mobile computer. Then carefully pull it out till unlocking its base as shown in the picture below:

2. Insert the card with the written part upward and push it in, aided by the back of the stylus, until it clicks into place.

To remove the SD card, just push it toward the inside, aided by the back of the stylus, until it clicks; a spring system will return it out.

CAUTION

Follow proper ESD precautions to avoid damaging the SD. 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 SD card slot for any other accessories.

1.5 ACCESSORIES

- **Cradles**

  94A151111 Datalogic Memor™ Single Cradle

  94A151116 Datalogic Memor™ Single Ethernet Cradle

- **Batteries**

  94ACC1326 Datalogic Memor™ Standard Battery Pack (Li-Pol or Li-Ion battery pack 1000 mAh@3.7 V)
  94ACC1325 Datalogic Memor™ Large Capacity Battery Pack (Li-Pol or Li-Ion battery pack 2000 mAh@3.7 V) + cover

  94ACC1327 Adapter for 3 AAA Alkaline batteries + cover

- **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)

- **Cables**

  94A051016 CAB-421 Mini USB Straight Cable

  94A051022 WIN-NET Serial Cable (HRS ST40X-18S-CV)

- **Various**

  94ACC1328 Datalogic Memor™ Stylus Pens (10 pcs)

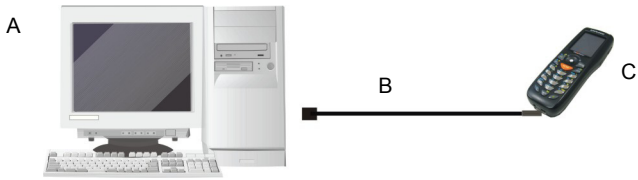
NOTE

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

2 CONNECTIONS

2.1 USB CONNECTION

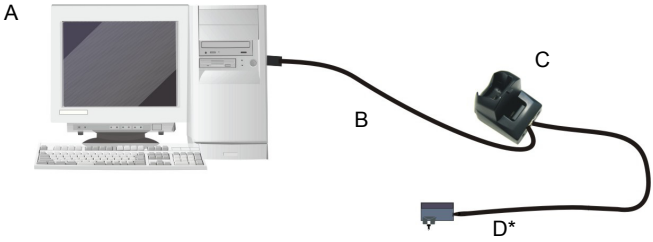
You can use any standard mini USB cable to directly connect the Datalogic Memor™ to a host computer to transfer data through the USB interface.



Key:

A) Host Computer
B) Standard Mini USB cable
C) Datalogic Memor™

The Single Cradle can be connected to the Host by any standard mini USB cable to transfer data through the USB interface.



Key:

A) Host Computer
B) Standard Mini USB cable
C) Single Cradle
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.

NOTE

If using the Datalogic Memor™ Single Ethernet Cradle, be sure that the switch is in the "USB" position.
During switch operation from USB position to Ethernet position and vice versa the mobile computer must not be inserted in the cradle.

2.2 RS232 CONNECTION

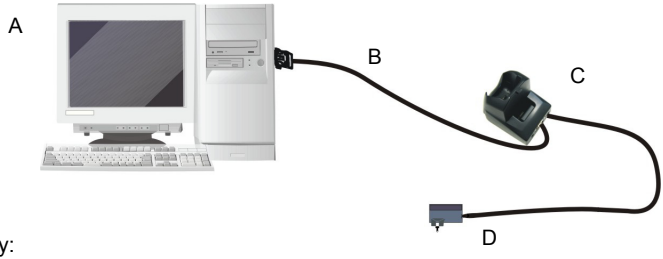
You can use a cable to directly connect the Datalogic Memor™ to a host computer to transfer data through the RS232 interface.

Key:

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

The Single Cradle can be connected to the Host by any standard 9-pin serial null-modem cable for RS232 communications.

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



Key:

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

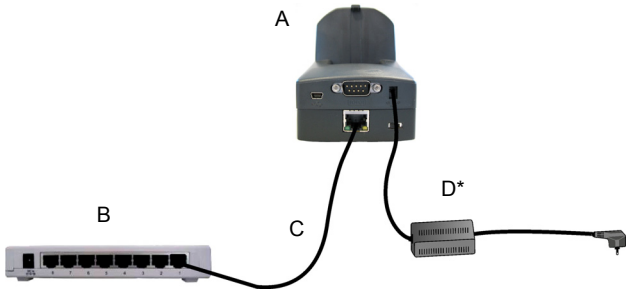
In this case the power supply is only necessary for battery charging. Insert the power supply plug into the power jack on the base of the cradle and attach the power supply to a power outlet.

NOTE

If using the Datalogic Memor™ Single Ethernet Cradle, be sure that the switch is in the "USB" position.
During switch operation from USB position to Ethernet position and vice versa the mobile computer must not be inserted in the cradle.

2.3 ETHERNET CONNECTION

The Datalogic Memor™ Single Ethernet Cradle provides an Ethernet connection. Connect the Ethernet cradle (Ethernet port) to an Ethernet hub or switch.
Connect the power jack to a power supply*.



A) Datalogic Memor™ Single Ethernet Cradle
B) Ethernet hub
C) UTP CAT 5E cable (recommended use)
D) *Power supply

* Recommended power supply: 94ACC1324 PG5-30P35 AC/DC POWER SUPPLY EU/USA PLUG.

Refer to the Datalogic Memor™ Single Ethernet Cradle User Guide for further details.

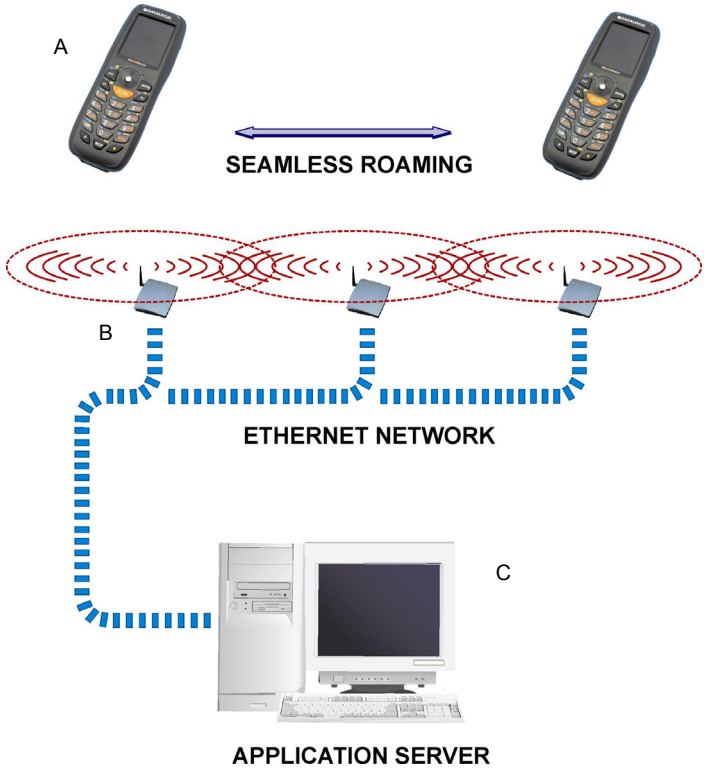
NOTE

Be sure that the switch is in the "Ethernet"" position.
During switch operation from USB position to Ethernet position and vice versa the mobile computer must not be inserted in the cradle.

2.4 WLAN CONNECTION

Datalogic Memor™ Wi-Fi 802.11 b/g radio models can communicate with the host using the on-board radio frequency component and an Access Point connected to the host computer.

For models using the WiFi8 radio (8xx-xxx-xxx models), you can find information about the applet for radio configuration: http://www.summitdatacom.com/SCU.htm.
To launch this utility you can tap the specific icon if it's visible on the taskbar or you can open Connections folder or Control Panel from desktop and select the 'Summit Client Utility' icon.



Key:

A) Datalogic Memor™
B) Access Point
C) Host – Application Server

NOTE

Wi-Fi module is on by default, in order to avoid wasting energy, you can switch it off using the Wireless Communications applet.

NOTE

Suspending the terminal powers off the 802.11b/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 802.11b/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.)

2.5 WPAN CONNECTIONS

Bluetooth® Datalogic Memor™ mobile computer 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 avoid wasting energy, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on using the Wireless Communications applet (see par. 3.6.4), and perform the Discovery procedure (see par. 3.7.2).

NOTE

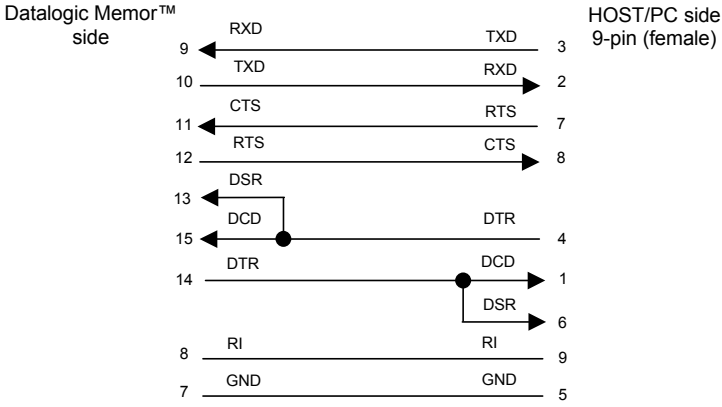
Suspending the terminal powers off the Bluetooth® radio and drops the piconet (Bluetooth® connection). When the terminal resumes, it takes approximately 10 seconds for the Bluetooth® radio driver to re-initialize the radio.

NOTE

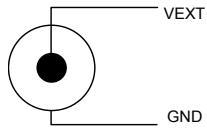
Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.), etc.

2.6 CONNECTION CABLES

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



- **Power Supply Polarity:**



3 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.

3.1 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 CE 5.0 desktop configuration will appear on the screen. Wait a few seconds before starting any activity so that the mobile computer completes its startup procedure.

Use the stylus (par. 3.1.1) or joystick (par. 3.1.2) 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 no longer 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 turned off by the application program.

3.1.1 Using the Stylus

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

Double Tap:	Touch the screen twice 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. 3.6.6)

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 Mobile-provided stylus.

Do not apply not necessary high pressures on 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.

3.1.2 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.

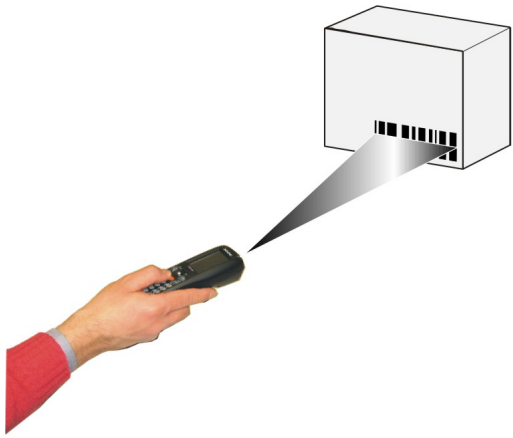
3.2 DATA CAPTURE

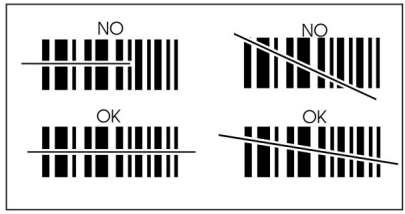
To capture data first of all select the barcode icon on the bottom-right side of the display and tap the 'Capture' menu item then proceed with the following directions.
To configure and enable data capture parameters refer to par. 3.5.

3.2.1 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 intercept the barcode as shown in the figure below. If enabled, the emission of an acoustic signal will indicate that the scan has taken place correctly.





NOTE

Remove the protective film cover over the Laser Output Window before use.

3.3 DESCRIPTION OF THE KEYS

The Datalogic Memor™ provides a 20-key alphanumeric keyboard + ON/OFF key + joystick. The following image shows this keyboard.

Main Keys Function

KEY	FUNCTION
	It starts barcode 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. 3.1.2)
	Yellow modifier: when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier: when pressed before a standard key, it enables the character or function printed in blue above the key.
	It 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
	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 blue modifier key press, it locks and unlocks the keyboard.

3.3.1 Resetting the Memor™

There are several reset methods for the 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 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 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 (see 3.6.2) 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 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

CAUTION

Before performing a reset, it is recommended to:

- *execute a system backup to keep your more important files and applications persistent. See par. 3.8;*
- *save the registry to non-volatile memory to guarantee the persistence of the Windows configuration. See par. 3.6.2.*

3.4 STATUS INDICATORS

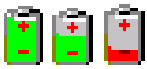
3.4.1 LED Status

The Datalogic Memor™ provides three 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 constant	It is constant once the charging process has been completed.
	Red constant	It is constant while charging.
Radio Status (on the upper left side of the joystick)	Blue	It blinks once Radio (802.11 b/g or Bluetooth®) status is active.

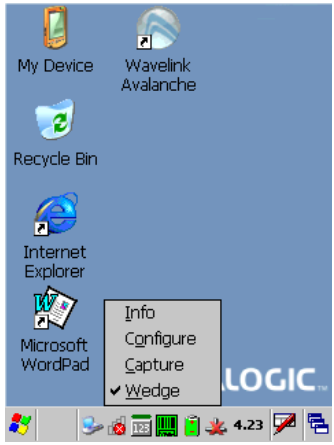
3.4.2 Taskbar

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

ICONS	DESCRIPTION
Time and Battery Icons	
10.50	It displays the time.
	They are representative of five different icons indicating the battery level. The icon is partially green when the power left is >20% and partially red colored when the power left is <20%.
	It indicates that the battery is charging.
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.
	It indicates that the keyboard is locked.
Decoding Status Icons	
	It indicates that the decoder is active (green), not active (grey).

3.5 DATA CAPTURE CONFIGURATION

From the Taskbar, tap the "Decoding" icon to open a drop–down menu. Decoding can also be accessed from the Control Panel.



By selecting the *Info* item from this drop-down menu you can access information about the Scanner and the Software; the *Configure* item opens the configuration applet (Data Capture Configuration Window), while *Capture* accesses the data capture applet (Data Capture Window), which enables code reading.
The last menu item (*Wedge*) enables Wedge Emulation.

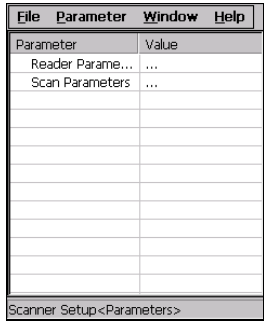
3.5.1 Configure

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.).

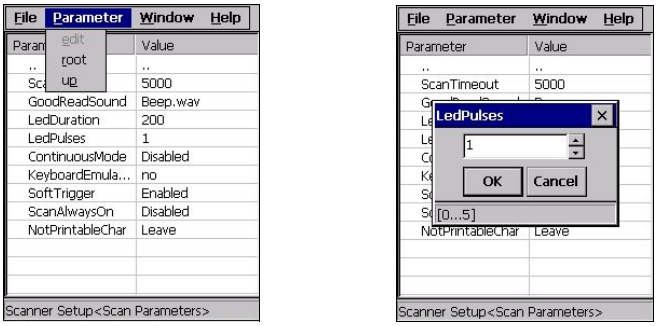
Each Data Capture screen window corresponds to a branch of the tree, and the name of the current branch is displayed at the bottom of each screen window.



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.

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

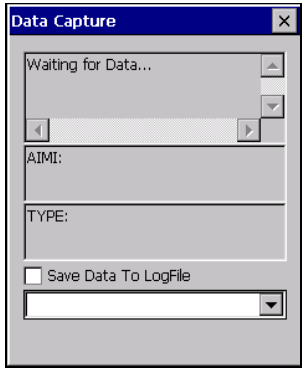
The following tables contain the default values for the major barcode setup parameters, according to the type of scan engine mounted on the mobile computer. For a complete list of parameters and of their configuration procedures, please refer to the SDK Help file on the CD.

SCAN PARAMETERS	LASER MODELS
ScanTimeout	5000
BeepType	Dual tone
BeepDuration	20
BeepFrequency	2000
GoodReadSound	Beep
LedDuration	200 ms
LedPulses	1
ContinuousMode	Disabled
KeyboardEmulation	Enabled
SoftTrigger	Enabled
ScanAlwaysOn	Disabled
NotPrintableChar	Leave
ScanButton	Enabled

BARCODE SYMBOLOGY SPECIFIC READER PARAMETERS	LASER MODELS
UPC A	Enabled
UPC E	Enabled
EAN 8	Enabled
EAN 13	Enabled
Code 39	Enabled
Code 39 Full ASCII	Disabled
Code 32	Disabled
2/5: Interleaved	Enabled
2/5: Industrial	Disabled
2/5: Matrix	Disabled
Code 128	Enabled
EAN 128	Enabled
Codabar	Disabled
MSI	Disabled
Plessey	Disabled
Code 93	Disabled
Code 11	Disabled

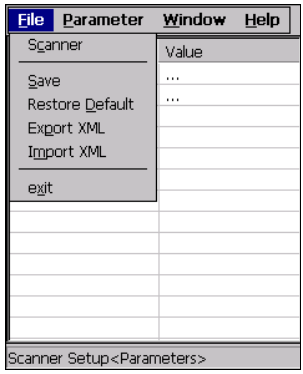
3.5.2 Capture

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.

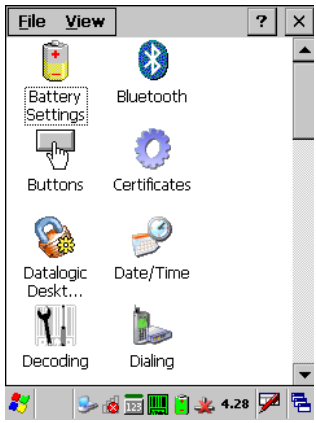


Enabling the Data Capture

3.6 CONTROL PANEL

From the Desktop, double tap on the "My Device" icon and then double tap on the "Control Panel" icon to open the control panel main window. The Control Panel can also be launched from Start ->Settings ->Control Panel.

APPLET programs are displayed as icons; one icon corresponds to each APPLET.



Control Panel

3.6.1 Buttons

The BUTTONS Applet allows assigning desired applications to be launched by one of the function keys (F1...F4).

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

3.6.2 Registry

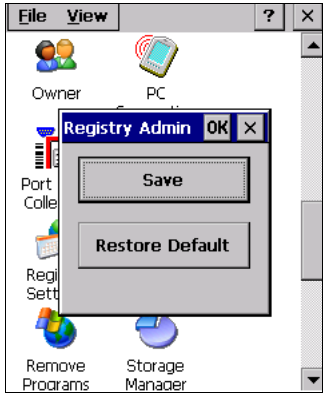
The REGISTRY ADMIN applet provides management of Windows CE 5.0 registry.

Select the REGISTRY ADMIN applet by double tapping the Registry Admin icon.

The Registry Administration Main window appears. Two functions are available:

- Save Registry allows permanently saving the Windows configuration (example: custom configuration of screen desktop background color, or network adapter configuration) to non-volatile memory (SAVE button).
- Restore Default Registry allows restoring the initial factory default configuration (Restore Default button). After restoring the factory default configuration, you must perform a warm boot.

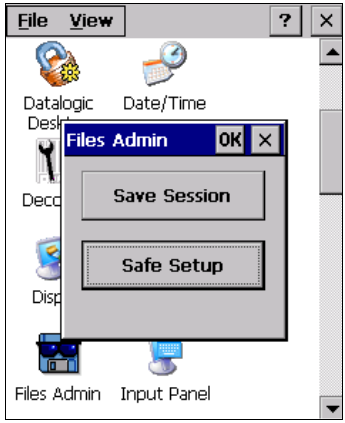
Saving the registry to non-volatile memory guarantees the persistence of the Windows configuration in case of battery pack replacement and in case of a Cold Boot.



Registry Administration Window

3.6.3 Files Admin

The FILES ADMIN applet enables control of the permanence of files in the System Folder. Two functions are available on the Files Admin Main window by means of two buttons:



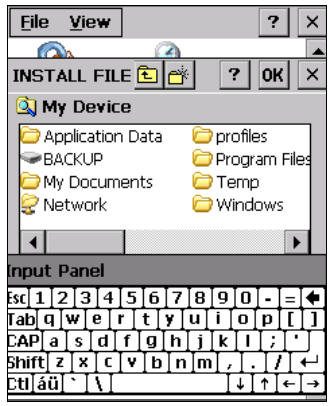
Files Admin Main Window

Save Session: with this button all files will be permanently saved in the \Windows directory in non-volatile memory. This function guarantees the steady maintenance of every file produced during the current working session - even of sub-directories and relevant files - with the exception of the files belonging to the FLASH image.
These current working session files will be backed-up in the \Backup\Windows directory.
At the next cold boot, the files previously saved in the \Backup\Windows directory will be restored to the Windows directory (see par. 3.8).

Safe Setup: with this button, the installation of software programs will be saved to non-volatile memory (Backup directory). Before doing this, it will be checked that the Backup directory has enough space to save the files. If the directory space is not enough, an error message will be shown and the program will exit the Safe Setup function.

Two activating procedures are available for Safe Setup:

- Select an installation file (for example, a .CAB cabinet file) from the Safe Setup mask.



Safe Setup First Mask

Then select \Windows or a relevant sub-directory in the path box. Then, Safe Setup will recognize the new files and directories present in the \Windows directory, and will copy them to the \Backup\Windows directory. At the next cold boot, these files will be restored (see par. 3.8).

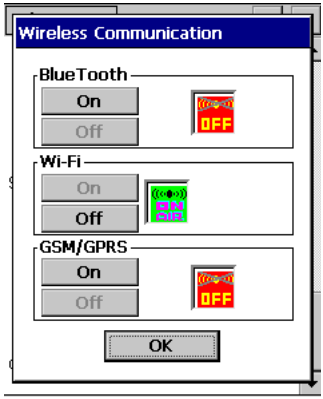
- Simply skip the first mask either by closing it or by pressing the ESC key. When it closes, a new mask will pop up: it will enable any type of installation (even remote ones like ActiveSync® installations). Make sure the installation directory is \Windows or one of its sub-directories. After installation, tap OK: Safe Setup will save the new files in the \Backup\Windows directory.

Safe Setup Second Mask

3.6.4 Wireless Communications

The WIRELESS COMMUNICATIONS applet provides management of the 802.11 b/g radio and of the Bluetooth® module.

Select the WIRELESS COMMUNICATIONS applet by double tapping the Wireless Communications icon. The following window will appear:



Wireless Communications Window

3.6.5 Ethernet Settings

Datalogic Memor™ can be connected to an Ethernet network by inserting it into the Datalogic Memor™ Single Ethernet Cradle.

NOTE

Ethernet communication requires Datalogic Memor™ SW version 5.51 or later. Verify the software version by tapping on Software – Version in the Datalogic default home page. Otherwise, search for the file version.htm under the Windows folder.

When correctly inserted into the Single Ethernet Cradle, the Ethernet driver installed on the mobile computer will automatically run.

1. From the Datalogic Memor™ open Internet Explorer>Internet Options and check *use LAN no autodial* then OK.

2. From the Datalogic Memor™ > Explorer, enter the IP address or the PC name in the address bar. You may be required to enter your network username and password. The LAN connection will take place and you will be able to see the PC shared folders and exchange files.

If your network provides Internet Service and does not use a proxy server you can directly access the Internet. Otherwise set the internet proxy parameters according to your network settings.

In order to configure TCP/IP settings, use the *Cradle Manager*, downloadable from the website www.mobile.datalogic.com, as well as the Memor™ Single Ethernet Cradle User Guide, that describes how to:

- correctly use the Datalogic Memor™ Single Ethernet Cradle;
- configure the cradle by means of the *Cradle Manager;*
- change the Ethernet Cradle driver behaviour.

3.6.6 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. Select **Start > Settings > Control Panel > Stylus** to open the **Stylus Properties** dialog as shown in Figure 1.
2. Adjust **Double-Tap** sensitivity if needed or desired.
3. Select the **Calibration** tab to open the **Calibration** application.

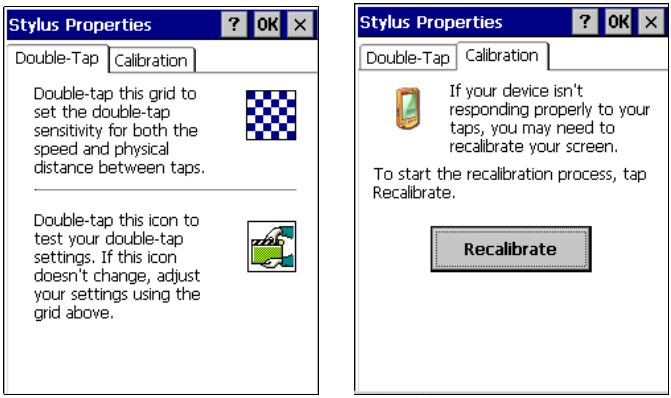


Figure 1

4. Tap **Recalibrate** to open the **Calibration** screen shown in Figure 2.
5. Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen. Press the **<ESC>** key to cancel the stylus calibration.
6. Press the **<ENTER>** key or tap the screen to accept the new calibration settings. Press the **<ESC>** key to keep the old settings.
7. New calibration settings are persistently saved in registry.

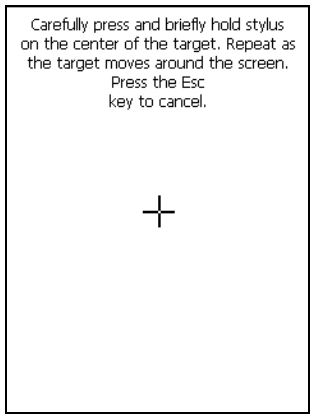


Figure 2

Startup stylus calibration

When starting the terminal, a stylus calibration screen 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 warm boot.
3. After a **Clean Boot**.
4. After a **Firmware Update** (see par. 3.9).

3.7 WINDOWS CONNECTIONS

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

3.7.1 Microsoft® ActiveSync®

Microsoft® ActiveSync® gives you the possibility to connect your desktop computer to your Datalogic Memor™ and synchronize the information on them. Synchronization compares the data on the Datalogic Memor™ with that on the desktop computer and updates both computers with the most recent information.

With ActiveSync®, it is possible to:
- Back up and restore Datalogic Memor™ data.
- Copy files between Datalogic Memor™ and desktop computer.
- Synchronize files by selecting a synchronization mode.

You can establish an ActiveSync® connection to your Datalogic Memor™ through the following electrical interfaces:

- **RS232** either directly or through the Single Cradle
- **USB** either directly or through the Single Cradle
- **Bluetooth®** (see par. 3.7.2)

It is possible to constantly synchronize while connected to a desktop computer or, alternatively, synchronization can be performed only when the synchronize command is chosen. You can select which information types are synchronized and control how much data is synchronized.

NOTE

By default, ActiveSync® does not automatically synchronize all types of information. Use ActiveSync® options to turn synchronization on and off for specific information types.

For example:
Synchronize Microsoft Word and Microsoft Excel files between the Datalogic Memor™ and the desktop computer. The files will automatically be converted to the correct format.

NOTE

Visit the following Microsoft Web site for the latest in updates and technical information:
http://www.microsoft.com/windowsmobile/activesync/default.mspx

ActiveSync® Remote

NOTE

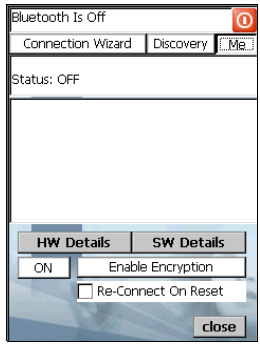
Microsoft® ActiveSync® Remote is no longer supported in Windows CE. For backward compatibility you can download it from the Internet. We suggest enabling the FTP Server and connecting to an FTP Client. See par. 3.7.3.

3.7.2 Bluetooth® Manager Device Setup

In order to enable a Bluetooth® device for communication with the Datalogic Memor™ you must perform the discovery procedure and enable the device as follows:

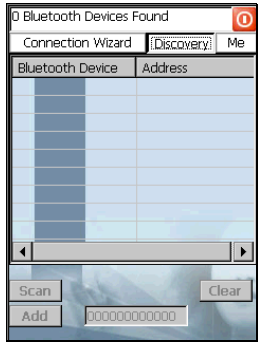
1. Place the Bluetooth® device within the range of the Datalogic Memor™ (10 meters).
2. From the “Control Panel” main window double tap on the “Bluetooth” applet to open the Bluetooth® Manager Device window:

3. Tap on the “Me” button to enter the related window; then, tap on the “ON” button to activate the Bluetooth® module. The module activation may be also performed by using the WIRELESS COMMUNICATION applet as described in par. 3.6.4.



By tapping on the “HW Details” and “SW Details” buttons, information about the mobile computer Bluetooth® hardware and software will be displayed, while the “Enable Encryption” button starts encryption of the Bluetooth® communication data. If tapping on the “Close” button the Bluetooth® Manager Device window will be closed.

4. Tap on the “Discovery” button to enter the related window; then, tap on the “Scan” button to run the Discovery procedure:



Once the Discovery procedure has been completed, select the desired Bluetooth® device from the list. It is also possible to digit (12 hexadecimal digits) the Bluetooth® address of the desired device by tapping on the “Add” button. The “Clear” button deletes all discovered devices from the list.

5. Once the desired Bluetooth® device has been selected, tap on the “Connection Wizard” button to enter the related window where selecting the connection type to be used for communication with the Bluetooth® device:

The “Serial Port” button starts communication through the Bluetooth® serial port COM 5 (typically used for connection with GPS devices).
The “Printer” button starts communication with a printer through the Bluetooth® serial port COM 5.
The “Kbd Emulation” button allows connection with a barcode reader using the keyboard emulation.
The “ActiveSync” button starts communication with a PC equipped with a Bluetooth® antenna and the related ActiveSync.

6. Hide the Bluetooth® Manager Device window by tapping on the icon available on each window or close it through the “Close” button available in the “Me” window (see step 3 of this procedure).

3.7.3 FTP Server Setup

The Datalogic Memor™ Operating System includes a sample File Transfer Protocol (FTP) server. FTP is used for copying files to and from remote computer systems over a network using TCP/IP. You can establish a connection to your Datalogic Memor™ using its FTP Server through the following interfaces:

WLAN using the WiFi radio
LAN through the Datalogic Memor™ Single Ethernet Cradle.

Proceed as follows:

1. Create a registry file (extension .reg) to setup and enable FTP Server communication. A simple example file for anonymous logon is given below:

```
REGEDIT4

[HKEY_LOCAL_MACHINE\Comm\FTPD]
"DefaultDir"="\\"
"AllowAnonymousUpload"=dword:00000001
"UseAuthentication"=dword:00000000
"BaseDir"="\\"
"IsEnabled"=dword:00000001
"LogSize"=dword:00001000
"DebugOutputMask"=dword:00000017
"DebugOutputChannels"=dword:00000002
"IdleTimeout"=dword:0000012c
"AllowAnonymous"=dword:00000001
"AllowAnonymousVroots"=dword:00000001
```

2. Copy this file to the Datalogic Memor™ using ActiveSync®.
3. Launch the .reg file from the Datalogic Memor™.
4. Perform a warm boot on the Datalogic Memor™.
5. From the PC > Explorer address bar (or running an FTP Client from the PC), enter the Datalogic Memor™ IP address.

NOTE

For more information on FTP Client/Server connections refer to the following web page:

http://msdn2.microsoft.com/en-us/library/aa922316.aspx.

3.8 BACKUP DIRECTORY FILE MANAGEMENT

All of the Windows CE 5.0 system files reside in RAM (volatile memory) except for the Backup directory, which resides in FLASH (non-volatile memory). Therefore the contents of the Backup directory are persistent even if the mobile computer is re-booted or the battery pack is changed.

You can save your more important files that you don't want to lose due to mobile computer re-boot, in the Backup directory or create a sub-directory within Backup.

Even though the Windows Directory resides in RAM, it often contains files or sub-directories created by the user or by installation programs that you don't want to lose at re-boot. To keep these files persistent it is necessary to copy them to the directory \Backup\Windows. This directory doesn't exist originally (only Backup exists), and therefore it must be created. At the next cold boot, before activating the shell, Windows CE 5.0 will copy the contents including all sub-directories of \Backup\Windows to \Windows.

Likewise, to maintain files that must be run at Windows CE 5.0 startup, (i.e. .exe, .lnk, .vb, .htm, etc.), it is necessary to copy them to the directory \Backup\Startup. This directory does not exist originally (only Backup exists), and therefore it must be created. The application programs will be run after any type of re-boot (both software and cold boot).

As an alternative to the Safe Setup function, it is possible to copy the .cab files to the directory \Backup\Cabfiles (the Cabfiles sub-directory doesn't exists originally and must therefore be created) and perform a mobile computer cold boot to have the application installed. Once these files are copied to the directory \Backup\Cabfiles, the application will be run after each re-boot.

From the second cold boot on, a message may be displayed such as "<application name> is already installed. Re-install?". This message blocks the boot process. Press the [Enter] key to continue the system initialization.

3.9 FIRMWARE UPDATE

The Datalogic Memor™ is equipped with a tool that implements a firmware update service.
This tool, called **Datalogic Updater** (**DLUpdater**), is compatible with all hardware versions of the following WindowsCE 5.0 models:

Datalogic Skorpio™;
Datalogic Jet™;
Datalogic Kyman™;
Datalogic Memor™.

The DLUpdater, that is automatically invoked at startup, search for a potential update file (**DLUpdate.bin**) in the storage card. If it finds it, it proceeds to update only the components that are damaged or not updated. An update can be explicitly invoked by running the application **DLUpdater.exe**, provided together with the update file. The update must be contained in folder "\Storage Card".

CAUTION

It is advisable, even if not binding, to connect the terminal to an external power source before starting the update process. This prevents the terminal from turning off while running and avoids a corruption of flash content.

CAUTION

After the update process, all the data stored in the backup folder could be irreparably lost, as well as the device configuration (even that one stored in persistent memory). Therefore, before starting a firmware update it is advisable to run a backup copy of the data you want to preserve on SD Card or on PC (e.g. using ActiveSync).

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 **www.mobile.datalogic.com**.
2. Navigate the **Downloads** section of the web site.
3. Select the product, desired language, and software updates. Click **Go!**
4. Select the file you want to download, then click **Save** and navigate to the location where you want to save the firmware files.
5. Click **Save** again to begin copying the files to your local machine (or local network location).

Firmware Update Procedure

1. Download the update from the web site (see previous par.). It is a zip file containing the files:
   - **DLUpdater.exe** – that starts the update;
   - **DLUpdate.bin** – binary file containing the updated firmware;

2. Copy the files **DLUpdater.exe** (optional) and **DLUpdate.bin** on a Mini SD card.

3. Insert the Mini SD card in the terminal slot (see par. **1.4**).

4. Open the folder **"\Storage Card"** on the terminal and run DLUpdater.exe (double tap the icon). As an alternative, you can also perform a reboot of the terminal (warm or cold).

5. The message shown in figure 1 will come up on the screen. It informs that DLUpdater found a firmware update in "**\Storage Card\DLUpdate.bin"**. It also warns the user that by proceeding with the terminal firmware upgrade all data and configurations (registry) may be lost. Select **<YES>** to continue, **<NO>** to cancel operations.

6. DLUpdater detects whether an external power source is present. If not, a warning will come up on the screen asking for a confirmation before carrying on (see figure 2).

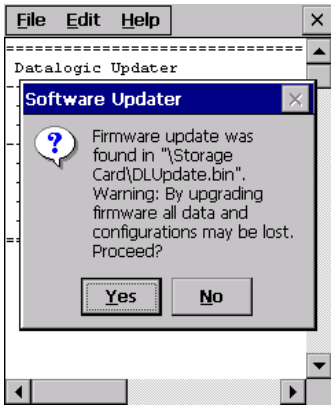


Figure 1

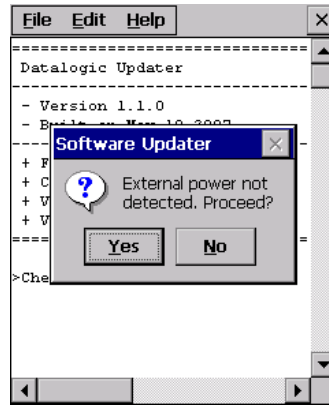


Figure 2

7. DLUpdater performs all the necessary operations of check, update and verify and, if no errors occur during the update, terminates the running invoking a cold boot of the terminal, so that the update process could be completed.

8. Following the operating system upgrade, the message shown in figure 3 may come up at the terminal startup. It informs the user that a flash disk formatting (folder **\backup**) would required for a clean update and asks

whether to proceed with this operation. Select **<YES>** to format the flash disk. Select **<NO>** to preserve the current data stored in the backup folder. Sometimes the update process may force a flash format. In these cases the data stored in the backup folder will be irreparably lost. It is therefore recommended to run a backup of the data you want to preserve before starting a firmware update.

Figure 3

4 MAINTENANCE

NOTE

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

CAUTION

By default, the backup battery is disconnected at the factory to avoid damage due to excessive draining. If it is not connected (through the backup battery switch) and subsequently charged together with the battery pack, all data will be lost when changing the battery pack.

4.1 CONNECTING THE BACKUP BATTERY

The backup battery must be connected by putting the switch in the "connected" position. It will be charged together with the battery pack through the normal charging process.

It is only necessary to disconnect the backup battery if it will not be used for a long period of time (i.e. several weeks).

CAUTION

Be careful when using sharp-edged tools to move the switch from the “disconnected” position to the "connected" position and vice versa!

4.2 CHARGING THE BATTERY PACK

The battery pack autonomy varies according to factors, such as the frequency of barcode scanning, RF usage, 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 using a Single Cradle.

Moreover recharging is possible by USB Direct connection with the host computer, but with longer charging times and in this case it is advised to keep 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. 3.4).

If the battery pack is removed from the mobile computer, it can be recharged by inserting it into the rear slot of a Single Cradle.

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.

CAUTION

If the battery pack is new or has not been recharged for a long time, it is necessary to perform two or three charging and discharging cycles (complete use) before it can reach its maximum charge capability.
The maximum time required to recharge a completely run-down standard battery pack is about 3 hours.

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 30 °C (68 to 86 °F).

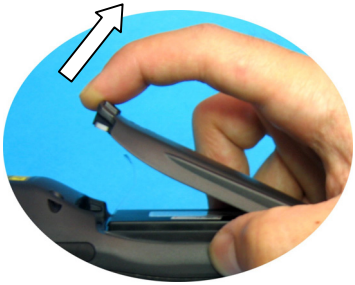
The Batteries must be charged at a temperature ranging from 0° to +45 °C (+32° to +113 °F).

4.3 REPLACING THE BATTERY PACK

To correctly replace the battery pack, proceed as follows.

1. Turn off the Datalogic Memor™.
2. Use the back of the stylus to rotate the battery cover screw to the vertical position, then push the battery clips in, as indicated in the figure below. The battery pack cover is now released.

3. Remove the cover and then the battery pack.



4. Install the new battery pack, first insert the bottom (contacts) side, then the upper (lock) side as indicated in the following figure:

5. For correct locking, push the battery clips outwards and rotate the screw to the horizontal position.

WARNING

Use only a Datalogic Mobile approved power supply. Use of an alternative power supply will void the product warranty and may cause product damage. Do not apply voltages to the batteries contacts.

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

Do not use the batteries of this terminal to power devices different from this mobile computer.

Do not place the battery in or near a fire or heat as they may explode.

Do not place the battery in direct sunlight, or use or store the battery inside unventilated areas in hot weather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.

Do not place the battery in microwave ovens, high pressure containers, or on induction cookware.

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

Do not short-circuit the battery contacts. 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 (these look like metal strips on the battery).

Do not carry or store battery pack together with metal objects (this might happen, for example, when you carry a spare battery in your pocket or purse). Short-circuiting the terminals may damage the battery or the connecting object.

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

Do not solder directly onto the battery pack.

Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.

Do not expose the battery pack to liquids.

NOTE

In order to guarantee an adequate operating autonomy, when replacing the battery pack the mobile computer checks the battery energy level. If the battery is not sufficiently charged, Datalogic Memor™ does not turn on (when pressing the ON/OFF key).
In this case, either substitute the battery pack with a charged one (sufficiently charged) or insert Datalogic Memor™ into a powered cradle or plug it into the direct power supply.

If alkaline batteries are used, the operating autonomy may vary according to operating conditions and battery manufacturer.

NOTE

To achieve the best battery life, turn off the radios not in use.

4.4 CLEANING THE MOBILE COMPUTER

Periodically clean the Datalogic Memor™ with a slightly dampened cloth.

5 TECHNICAL FEATURES

5.1 TECHNICAL DATA

Datalogic Memor™ Common Features

Electrical Features		
Power		
DC Supply	5 V ± 5%	
Battery Pack	1 cell Li-Pol or Li-Ion 1000 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)	
Communication Features		**Windows CE COM Port**
Bluetooth® Interface		COM5
Serial Interface	RS232 USB 1.1	COM1 COM6
Wireless Features		
WLAN	IEEE 802.11b/g DSSS	
WPAN	Bluetooth® IEEE 802.15, Class 2, Version 1.2	
Environmental Features		
Working 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	
Protection	IP 54	
ESD Protection	4 KV contact discharge, 8 KV air discharge	
Drop Resistance***	1.2 m / 3 ft 9 in	
Hardware Features		
FLASH	128 MB	
RAM	64 MB	
Microprocessor	Intel PXA 255 200 MHz	
Audio	Beeper	
LEDs	Two-color Good Read/Programmable Charging Status Radio Status	
Display	Transflective 64K Color TFT LCD with 320 x 240 pixel resolution (QVGA), with LED backlight and touch screen, antiglare and antiscratch protection	
Keyboard	20 Plastic Top - Backlit Keys + Joystick + lateral ON/OFF key	

* Battery must be charged at a temperature ranging from 0° to +45 °C. 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.

Mechanical Features	
Dimensions (LxWxH)	15.2 x 5.5 x 4.0 cm / 5.9 x 2.2 x 1.6in
Weight (depending on model)	210 g / 7.40 oz (incl. 1000 mAH battery) 240 g / 8.46 oz (incl. 2000 mAH battery)
Programming Features	
Operating system	Windows CE 5.0
Laser Models	
Decoded barcodes 1D	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

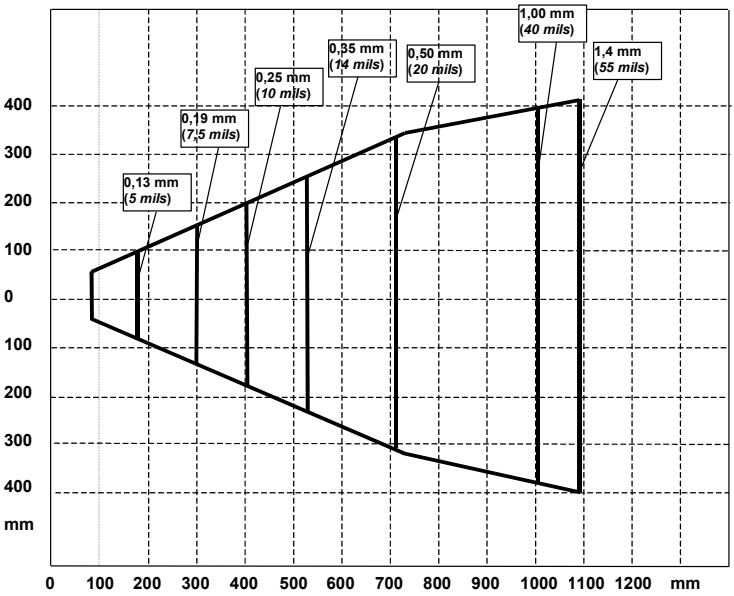
Datalogic Memor™ Laser Optical Features

Laser Optical Features	
	Datalogic Memor™ XXX 9XX XXX Models
Maximum resolution	0.10 mm / 4 mils
Skew angle	± 50°
Pitch angle	± 65°
Scan rate - bidirectional	104 ± 12 scan/sec
Light source laser scanner	VLD, wavelength 630~680 nm
Safety class	Class II EN 60825-1/CDRH

5.2 READING DIAGRAM

Datalogic Memor™ XXX-9XX-XXX

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



6 TEST CODES

High Density Codes

0.25 mm (10 mils)

Code 39

2/5 Interleaved

Code 128

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

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.

Barcode

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 mobile computer is compatible with the 1.1 protocol.

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 analyze the content of the bar code scanned.

EEPROM

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

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.

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.

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).

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.

INDEX

A

Accessories; 4
ActiveSync® Remote; 38

B

Backup Directory File Management; 43
Bluetooth® Manager Device Setup; 39
Buttons; 29

C

Charging the Batteries; 49
China RoHS Pollution Control Logos; xviii
Cleaning the Mobile Computer; 53
Connecting the Backup Battery; 47
Connection Cables; 11
RS232 Direct Connection; 11
Connections; 5
Control Panel; 29
Conventions; vii

D

Data Capture; 16
Laser Data Capture; 16
Data Capture Configuration; 23
Datalogic Memor™ Description; 1
Default Settings; 27
Description of the Keys; 17

E

End User License Agreement; v
Ethernet Connection; 7
Ethernet Settings; 34

F

FCC Compliance; xv
Files Admin; 31
Firmware Update; 44
FTP Server Setup; 42

G

General View; xix
Glossary; 60

L

Laser Safety; ix

M

Maintenance; 47
Microsoft® ActiveSync®; 37
Model Description; 1

P

Package Contents; 2
Patents; xv

R

Radio Compliance; xiv
Reader Parameters; 26
Reading Diagram; 56
Reference Documentation; vii
References; vii
Registry; 30
Replacing the Batteries; 50
Resetting the Memor™; 19
RS232 Connection; 6

S

Safe Setup; 31
Safety Regulations; viii
SAR Compliance; xv
Save Session; 31
Scan Parameters; 26
SD Card Insertion; 3
Services and Support; vii
Special Function Icons; 18
Startup; 12
Status Indicators; 21
Stylus Calibration; 35

T

Taskbar; 21
Technical Features; 54
Test Codes; 57

U

USB Connection; 5

Using the Joystick; 15
Using the Stylus; 14

W

WEEE Compliance; xvi
Windows Connections; 37
Wireless Communications; 33
WLAN Connection; 8
WPAN Connections; 10

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Bologna - Italy

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declare que el

DL-MEMOR XXX-YYY-ZZZ e tutti i suoi modelli
and all its models
et tous ses modèles
und seine Modelle
y todos sus modelos

sono conformi alle Direttive del Consiglio Europeo sottoelencate:
are in conformity with the requirements of the European Council Directives listed below
sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous:
der nachstehend angeführten Direktiven des Europäischen Rats:
cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

1999/5/EEC R&TTE

Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti:
This declaration is based upon compliance of the products to the following standards:
Cette déclaration repose sur la conformité des produits aux normes suivantes:
Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht:
Esta declaración se basa en el cumplimiento de los productos con la siguientes normas:

ETSI EN 301 489-17 v1.2.1, August 2002: ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); ELECTROMAGNETIC COMPATIBILTY (EMC) STANDARD FOR RADIO EQUIPMENT AND SERVICES; PART 17: SPECIFIC CONDITIONS FOR 2,4GHZ WIDEBAND TRANSMISSION SYSTEMS AND 5GHZ HIGH PERFORMANCE RLAN EQUIPMENT

ETSI EN 300 328 v1.6.1, November 2004: 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

EN 60950-1, December 2001: INFORMATION TECHNOLOGY EQUIPMENT – SAFETY – PART 1: GENERAL REQUIREMENTS

Lippo di Calderara, March 9th 2007

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