

Datalogic Scanning, Inc.
 959 Terry Street
 Eugene, Oregon 97402
 Telephone: (541) 683-5700
 Fax: (541) 345-7140

An Unpublished Work - All rights reserved. No part of the contents of this documentation or the procedures described therein may be reproduced or transmitted in any form or by any means without prior written permission of Datalogic Scanning, Inc. or its subsidiaries or affiliates ("Datalogic" or "Datalogic Scanning"). Owners of Datalogic products are hereby granted a non-exclusive, revocable license to reproduce and transmit this documentation for the purchaser's own internal business purposes. Purchaser shall not remove or alter any proprietary notices, including copyright notices, contained in this documentation and shall ensure that all notices appear on any reproductions of the documentation. Should future revisions of this manual be published, you can acquire printed versions by contacting your Datalogic representative. Electronic versions may either be downloadable from the Datalogic website (www.scanning.datalogic.com) or provided on appropriate media. If you visit our website and would like to make comments or suggestions about this or other Datalogic publications, please let us know via the "Contact Datalogic" page.

DISCLAIMER

Datalogic has taken reasonable measures to provide information in this manual that is complete and accurate, however, Datalogic reserves the right to change any specification at any time without prior notice. Datalogic is a registered trademark of Datalogic S.p.A. in many countries and the Datalogic logo is a trademark of Datalogic S.p.A. all licensed to Datalogic Scanning, Inc. All other trademarks and trade names referred to herein are property of their respective owners.

SERVICES AND SUPPORT

Datalogic provides several services as well as technical support through its website. Log on to www.scanning.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](#) including:
 - **Datalogic Aladdin™** a multi-platform utility program, which allows device configuration using a PC. It provides RS232/USB-COM interface configuration as well as configuration barcode printing.
- **SERVICES & SUPPORT**
 - **Datalogic Services** - Warranty Extensions and Maintenance Agreements
 - **Authorised Repair Centres**
- **CONTACT US**
 E-mail form and listing of Datalogic Subsidiaries

WARRANTY

Datalogic warrants this product against defects in workmanship and materials, for a period of 5 years from the date of shipment, provided that the product is operated under normal and proper conditions.

Datalogic has the faculty to repair or replace the product; these provisions do not prolong the original warranty term.

The warranty does not apply to any product that has been subject to misuse, accidental damage, unauthorized repair or tampering.

Datalogic Scanning, Inc.
 959 Terry Street
 Eugene, OR 97402



dichiara che
 declares that the
 déclare que le
 bescheinigt, daß das Gerät
 declare que el

Touch 65
Touch 90

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:
 den nachstehenden angeführten Direktiven des Europäischen Rats:
 cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

89/336/EEC EMC Directive	e	92/31/EEC, 93/68/EEC	emendamenti successivi
	and		further amendments
	et		ses successifs amendements
	und		späteren Abänderungen
	y		sucesivas enmiendas

Basate sulle legislazioni degli Stati membri in relazione alla compatibilità elettromagnetica ed alla sicurezza dei prodotti.
 On the approximation of the laws of Member States relating to electromagnetic compatibility and product safety.
 Basée sur la législation des Etats membres relative à la compatibilité électromagnétique et à la sécurité des produits.
 Über die Annäherung der Gesetze der Mitgliedsstaaten in bezug auf elektromagnetische Verträglichkeit und Produktsicherheit entsprechen.
 Basado en la aproximación de las leyes de los Países Miembros respecto a la compatibilidad electromagnética y las Medidas de seguridad relativas al producto.

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:

EN 55022 (CLASS B ITE), AUGUST 1994:	LIMITS AND METHODS OF MEASUREMENTS OF RADIO
AMENDMENT A1 (CLASS B ITE), OCTOBER 2000:	DISTURBANCE OF INFORMATION TECHNOLOGY EQUIPMENT
EN 55024, SEPTEMBER 1998:	INFORMATION TECHNOLOGY EQUIPMENT. IMMUNITY
	CHARACTERISTICS. LIMITS AND METHODS OF MEASUREMENTS



Touch™ 65/90 Light

CONTACT READERS

QUICK REFERENCE GUIDE



820001801eng (Rev. A)

9/07

UPDATES AND LANGUAGE AVAILABILITY

UK/US

The latest drivers and documentation updates for this product are available on Internet.
 Log on to: www.scanning.datalogic.com

I

Su Internet sono disponibili le versioni aggiornate di driver e documentazione di questo prodotto. Questo manuale è disponibile anche nella versione italiana. Collegarsi a: www.scanning.datalogic.com

F

Les versions mises à jour de drivers et documentation de ce produit sont disponibles sur Internet. Ce manuel est aussi disponible en version française. Cliquez sur : www.scanning.datalogic.com

D

Im Internet finden Sie die aktuellsten Versionen der Treiber und Dokumentation für dieses Produkt. Die deutschsprachige Version dieses Handbuchs ist auch verfügbar.
 Adresse : www.scanning.datalogic.com

E

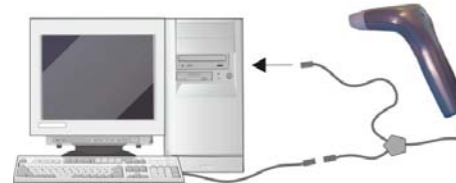
En Internet están disponibles las versiones actualizadas de los drivers y documentación de este producto. También está disponible la versión en español de este manual.
 Dirección Internet : www.scanning.datalogic.com

CONNECTIONS

USB



WEDGE



RS232



NOTE

Prior to connection, verify that your connection cable matches your Touch™ Light interface model (see product label). Avoid connecting interface cables, which are not compatible with your Touch™ Light model.

DISCONNECTING THE CABLE



COMPLIANCE

LED CLASS

Class 1 LED product.

This product conforms to EN60825-1:2001.

FCC COMPLIANCE

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

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

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.

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 150 mA, which supplies power directly to the reader via the power connector of the cable.

WEEE COMPLIANCE



PATENTS

This product is [licensed](#) under the following U.S. patent:

6,158,661

This product is [covered](#) by one or more of the following patents:

U.S. patents 5,917,176; 5,992,740; 6,010,073; 6,305,606 B1; 6,517,003 B2; and 6,712,271 B2

European patents 789,315 B1; 822,508 B1; 829,814 B1; 851,378 B1; 895,175 B1; and 1,205,871 B1

Additional patents pending.

DEFAULT VALUES

USB-KBD DEFAULT SETTINGS

USA keyboard, FIFO enabled, inter-character and inter-code delays disabled, control character emulation = ctrl+shift+key.

DATA FORMAT: code identifier disabled, no field adjustment, code length not transmitted, no header, terminator = ENTER, character replacement disabled.

RS232 Standard DEFAULT SETTINGS

9600 baud, no parity, 8 data bits, 1 stop bit, no handshaking, delay disabled, rx timeout 5 sec., ack/nack disabled, FIFO enabled, serial trigger lock disabled.

DATA FORMAT: code identifier disabled, no field adjustment, code length not transmitted, no header, terminator = CR-LF, character replacement disabled.

WEDGE DEFAULT SETTINGS

USA keyboard, caps lock off, caps lock auto-recognition enabled, num lock unchanged, inter-character and inter-code delays disabled, control character emulation = ctrl+shift+key.

DATA FORMAT: code identifier disabled, no field adjustment, code length not transmitted, no header, terminator = ENTER, character replacement disabled.

PEN DEFAULT SETTINGS

interpret mode, conversion to code 39 disabled, output level normal, idle level normal, minimum output pulse 600 μ s, overflow medium, inter-block delay disabled.

CODE SELECTION

Enabled codes

- EAN 8/EAN 13 / UPC A/UPC E without ADD ON
check digit transmitted, no conversions
- Interleaved 2/5
check digit control and transmission, variable length code; 4-99 characters
- Standard Code 39
no check digit control, variable length code; 1-99 characters
- Code 128
variable length code; 1-99 characters

Disabled codes

EAN 128, ISBT128, Code 93, Codabar, pharmaceutical codes, MSI, Plessey, Telepen, Delta IBM, Code 11, Code 16K, Code 49, RSS Codes

TECHNICAL FEATURES

Electrical Features		
Power Supply	RS232 interface	
	5 Vdc \pm 5%	
Consumption:		
Maximum	150 mA @ 5 Vdc	
Operating	100 mA @ 5 Vdc	
Sleep mode & USB Suspend Mode	< 500 μ A @ 5 Vdc	
Max. Scan Rate	256 scans/sec	
Reading Indicators	LED, Beeper	
Optical Features		
	Touch™ 65 Light	Touch™ 90 Light
Sensor	CCD solid state (2088 pixels)	
Reading Field	63 mm typical	80 mm typical
Max. Resolution	0.10 mm (4 mils)	0.13 mm (5 mils)
PCS	min. 25% (Datalogic Test Chart)	
Environmental Features		
Working Temperature	0° to +55 °C / 32° to 131 °F	
Storage Temperature	-20° to +70 °C / -4° to 158 °F	
Humidity	90% non condensing	
Drop Resistance	1.2 m (3 ft 9 in)	
ESD Protection	16 KV	
Protection Class	IP30	
Mechanical Features		
Weight (without cable)	about 160 g (5.6 oz)	about 195 g (6.8 oz)
Cable Length	2 m (6 ft 6 in)	

RESTORE DEFAULT

RESTORE DEFAULT



To change the defaults refer to the HHD II Software Configuration Manual, part number **90ACC1877**, or to the DL Sm@rtSet™ Configuration program, both downloadable from the website.

INTERFACE SELECTION

Select one of the interface codes according to your application.

USB INTERFACE SELECTION

USB-KBD



USB-KBD - ALT-mode



USB-COM *



USB-IBM-Hand Held



* When configuring USB-COM, the relevant files and drivers must be installed from the USB Device Installation software, which can be downloaded from the web site <http://www.scanning.datalogic.com>.

RS232 INTERFACE SELECTION

RS232 Standard



Nixdorf Mode A



Fujitsu



ICL Mode



WEDGE INTERFACE SELECTION

Wedge IBM AT or PS/2 PCs



PC Notebook



PC Notebook - ALT mode



IBM AT - ALT mode



Many other interfaces are supported and can be selected from the HHD II Software Configuration Manual available online at www.scanning.datalogic.com. Other supported interfaces:

USB: USB-IBM-Table Top; USB-KBD-APPLE

WEDGE: IBM XT; IBM SURE1; IBM Terminal 3153; IBM Terminals 31xx, 32xx, 34xx, 37xx; Wyse Terminals ANSI – PC –ASCII – VT220 style Keyboards; Digital Terminal VT2xx/VT3xx/VT4xx; APPLE ADB Bus

KEYBOARD NATIONALITY

USB-KBD and Wedge users should select one of the following wedge keyboard nationality codes according to your keyboard.

Belge



Deutsch



English



Español



Français



Italiano



Japanese



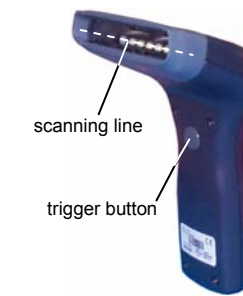
Svenskt



USA (Default)



USING TOUCH™ LIGHT SERIES READERS



Touch™ Light readers scan barcodes **on contact**. All models have a hardware trigger button which by default must be pressed to read a code. After configuring the reader interface type, the software trigger parameter (available in this manual) can be selected so that the reader operates like a model without trigger.

Code scanning is performed along an imaginary line passing across the reading window. This imaginary line must pass through the entire code. Successful scanning is obtained by keeping the handle of the reader parallel with respect to the code surface, see the figure above.

DATA FORMAT TERMINATORS

For your convenience, some common Terminators are given below. For other Header/Terminator selections, Data Format and Advanced Data Format parameters, see the HHD II Software Configuration Manual.

CR-LF



Enter



Tab



None



TRIGGER SELECTION

After configuring the reader interface type, the software trigger parameter can be selected so that the reader operates like a model without trigger.

Software Trigger



◆ Hardware Trigger



OPERATING TEST

Read the TEST code below.



t e s t