

## SERVICES AND SUPPORT

Datalogic provides several services as well as technical support through its website. Log on to [www.datalogic.com](http://www.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:

- **DL Sm@rtSet™** a Windows-based utility program, which allows device configuration using a PC. It provides RS232 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

## Touch™ 65/90 Light CONTACT READERS QUICK REFERENCE



820001800

DATALOGIC S.p.A.,  
Via Candini, 2  
40012 - Lippo di Calderara  
Bologna - Italy



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:  
AMENDMENT A1 (CLASS B ITE), OCTOBER 2000:

LIMITS AND METHODS OF MEASUREMENTS OF RADIO  
DISTURBANCE OF INFORMATION TECHNOLOGY EQUIPMENT

EN 55024, SEPTEMBER 1998:

INFORMATION TECHNOLOGY EQUIPMENT. IMMUNITY  
CHARACTERISTICS. LIMITS AND METHODS OF MEASUREMENTS

Lippo di Calderara, September 8th, 2005

*Ruggero Cacioppo*  
Ruggero Cacioppo  
Quality Assurance Laboratory Manager

## UPDATES AND LANGUAGE AVAILABILITY

### UK/US

The latest drivers and documentation updates for this product are available on Internet.

Log on to : [www.datalogic.com](http://www.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.datalogic.com](http://www.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.datalogic.com](http://www.datalogic.com)

### D

Im Internet finden Sie die aktuellsten Versionen der Treiber und Dokumentation von diesem Produkt. Die deutschsprachige Version dieses Handbuchs ist auch verfügbar.

Adresse : [www.datalogic.com](http://www.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.

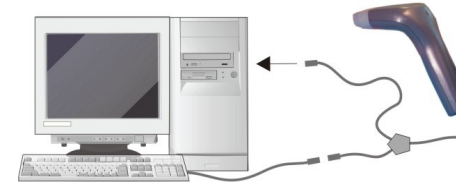
Dirección Internet : [www.datalogic.com](http://www.datalogic.com)

## 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**


<p><b>USB-KBD DEFAULT SETTINGS</b>                  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.</p>
<p><b>RS232 Standard DEFAULT SETTINGS</b>                  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.</p>
<p><b>WEDGE DEFAULT SETTINGS</b>                  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.</p>
<p><b>PEN DEFAULT SETTINGS</b>                  interpret mode, conversion to code 39 disabled, output level normal, idle level normal, minimum output pulse 600 µs, overflow medium, inter-block delay disabled.</p>
<p><b>CODE SELECTION</b>  <b>Enabled codes</b></p> <ul style="list-style-type: none"> <li>• EAN 8/EAN 13 / UPC A/UPC E without ADD ON check digit transmitted, no conversions</li> <li>• Interleaved 2/5 check digit control and transmission, variable length code; 4-99 characters</li> <li>• Standard Code 39 no check digit control, variable length code; 1-99 characters</li> <li>• Code 128 variable length code; 1-99 characters</li> </ul> <p><b>Disabled codes:</b>                  EAN 128, ISBT128, Code 93, Codabar, pharmaceutical codes, MSI, Plessey, Telepen, Delta IBM, Code 11, Code 16K, Code 49, RSS Codes</p>

**TECHNICAL FEATURES**

<b>Electrical Features</b>		
Power Supply	RS232 interface	
	5 Vdc ± 5%	
Consumption:		
Maximum	150 mA @ 5 Vdc	
Operating	100 mA @ 5 Vdc	
Sleep mode & USB Suspend Mode	< 500 µA @ 5 Vdc	
Max. Scan Rate	256 scans/sec	
Reading Indicators	LED, Beeper	
<b>Optical Features</b>		
	<b>Touch™ 65 Light</b>	<b>Touch™ 90 Light</b>
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)	
<b>Environmental Features</b>		
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	
<b>Mechanical Features</b>		
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.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 [datalogic.com](http://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) 	

**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 

**OPERATING TEST**

Read the TEST codes below.

Code 128



t e s t

**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.

**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.

