DATALOGIC

PowerScan™ PD8530 Family

Industrial Corded Handheld Area Imager Bar Code Reader

Quick Reference Guide

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DISCLAIMER

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PATENTS

This product is covered by one or more of the following patents:
Design Pat. AU 310201; AU 310202; CN 693980; CN735959; HK 0602013.5M001; HK 0602013.5M002; JP 1305693; KR 30-0460940; US D570,843 S; USD588,596 S.

US Pat. 5,992,740; 6,305,606 B1; 6,517,003; 6,808,114 B1; 6,997,385 B2; 7,387,246 B2; 5,367,151; 5,449,893; 5,545,889; 6,098,877; 6,220,514 B1; 6,412,698 B2; 6,607,132 B1; 6,817,529 B2; 6,834,805 B2; 7,948,214 B2.

European Pat. 789,315 B1; 895,175 B1; 1,128,314 B1; 1,128,315 B1; 1,396,811 B1; 1,413,971 B1; 1,816,585 B1; 1,942,442 B1.

Additional patents pending.

Table of Contents

NOTES

Description

This manual includes just the commands required for the startup of the scanner and setting of the interface. For complete configuration of the scanner, refer to the PowerScan™ PD8530 Reference Manual or the Datalogic Aladdin configuration program, both downloadable from the website and available on the included CD ROM.

The PowerScan™ PD8530 Hand-Held Reader packs a lot of performance into an attractive, rugged, hand-held device. It operates in commercial and industrial environments, as well as the front office.

Omni-directional Operating	To read a symbol or capture an image, you simply aim the reader and pull the trigger. Since the PowerScan™ PD8530 is a powerful omni-directional reader, the orientation of the symbol is not important.
Decoding	Thanks to powerful algorithms, PowerScan™ PD8530 reliably decodes all major 1D (linear) barcodes, 2D stacked codes (such as PDF417), 2D matrix symbols (such as DataMatrix), postal codes (such as POSTNET, PLANET). The data stream — acquired from decoding a symbol — is rapidly sent to the host. The reader is immediately available to read another symbol.
Formatting and Concatenating	The string of a decoded code may be processed according to either a simple or advanced data formatting and be concatenated to other codes (up to 4 different codes).
Imaging	PowerScan™ PD8530 can also function as a camera by capturing entire images or image portions of labels, signatures, and other items.
Autoscanning	An autoscan command causes the reader to scan continuously and to monitor the central zone of its reading area.
Flash Memory	Flash technology allows you to upgrade the PowerScan™ PD8530 reader as new symbologies are supported or as improved decoding algorithms become available.

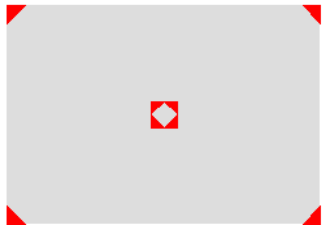
USA Driver License Parsing	The reader can be set up to select and output a subset of data elements from USA Driver License PDF417 barcodes. This feature can be enabled using either Datalogic Aladdin™ or the barcodes in the USA Driver License Parsing Quick Reference Guide (QRG), available on the Datalogic website.

Using this Quick Reference Manual, you can start using your PowerScan™ PD8530 reader. For details about general configuration commands, refer to the PowerScan™ PD8530 Product Reference Guide (PRG) available on the website.

Using the PowerScan™ PD8530 Family

The PowerScan™ PD8530 normally functions by capturing and decoding codes. The PowerScan™ PD8530 reader uses an intelligent aiming system. By pulling the trigger, the aiming system indicates a field of view, which should be positioned over the code:

Aiming System



When you pull the trigger, a red beam illuminates the code. If the aiming system is centered and the entire symbology is within the aiming system, you will get a good read. The field of view changes size as you move the reader closer or farther away from the code.

Relative Size and Location of Aiming System Pattern

Linear barcode

2D Matrix symbol

Successful reading is signaled by an audible tone plus a good-read green LED.

The PowerScan™ PD8530 hand-held reader aiming system is designed for general reading and decoding of 1D and 2D symbols. Some variation in reading distance will occur due to narrow bar width and other factors.

If reading codes positioned on reflective surfaces, it may be necessary to tilt the reader with respect to the barcode and/or set the Camera Control parameters. For configuring the Camera Control parameters refer to the PowerScan™ PD8530 Product Reference Guide (PRG) available on the website and the CD.

Indicators

LED Indicators

The PowerScan™ PD8530 family uses green LED indicators to signal the following reader functions:

STATUS	BEHAVIOR
Power ON	At power-on, the LEDs blink briefly, then light up for 2 seconds to signal the power supply is present.
Normal Function	The LED lights up after a good decoding and will switch off only at the next trigger press.

Beeper

The PowerScan™ PD8530 basic software provides beeper signals for good/wrong reading and for indicating errors. Its tone, volume and duration can be directly configured by using the codes given in the PowerScan™ PD8530 Product Reference Guide (PRG) available on the website.

The application program can also manage the beeper (User Defined Beeper) when the reader is controlled by a Host PC. It is possible to activate the beeper by sending a command from the Host to the reader via the current communication interface.

Good Read Spot

A green good-read spot will be projected in the field of view when the reading is successful.

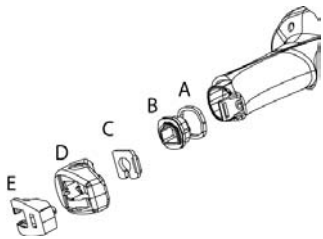
Setup

1. Make connections between PowerScan™ PD8530 and the Host PC using the correct interface cable.
2. Read the correct Interface Selection code.

Your reader is now ready to read codes using the default settings.

Connections

Connecting the Cable



A. Rubber gasket

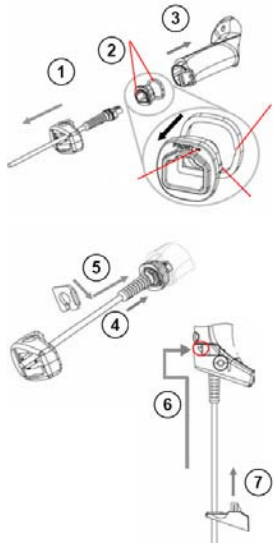
B. Plastic boot

C. Cable spacer

D. Cover

E. Strain relief

1. Slip the cover over the cable.
2. Push the plastic boot into the rubber gasket. Take care that the tab on the plastic boot is aligned with the notch in the rubber gasket.
3. Push the plastic boot and gasket into the handle. Ensure that the "Front" marking on the plastic boot is facing out, with the arrow pointing towards the front of the scanner.
4. Insert the cable into the socket of the plastic boot.
5. Insert the cable spacer into the cable wire and slide it towards the handle.
6. Push the cover along the cable towards the reader, and hook it over the yellow "tooth".
7. Insert the strain relief into the cover and tighten the screw to fix the whole assembly to the reader handle.



RS232

Wedge

USB

The USB interface is compatible with:

Windows 98 (and later)	IBM POS for Windows
Mac OS 8.0 (and later)	4690 Operating System

IBM USB

Start-Up

As with all USB devices, on connection the Host performs several checks by communicating with the PowerScan™ PD8530. During this phase the green LED on the PowerScan™ PD8530 blinks and normal operations are suspended. The correct USB driver must be loaded before the PowerScan PD8530 is ready to read barcodes

For all systems, the correct USB driver for the default USB-KBD interface is included in the Host Operating System and will either be loaded automatically or will be suggested by the O.S. and should therefore be selected from the dialog box (the first time only).

When configuring the USB-COM interface, 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.

The reader is ready.

Interface Selection

RS232

Wedge – IBM AT

USB BULK

USB KB EMULATION

USB COM EMULATION

USB GENERIC HID

IBM USB

RESTORE DEFAULT

Wedge Keyboard Nationality

This parameter default value is restored through the Interface Selection code and not through the Restore Default code.

Select one of the following keyboard nationality codes.

Belgian

English

French

German

Italian

Japanese

Spanish

Swedish

♦ USA

USB Keyboard Nationality

This parameter default value is restored through the Interface Selection code and not through the Restore Default code.

Select one of the following keyboard nationality codes.

Belgian

English

French

German

Italian

Japanese

Spanish

Swedish

♦ USA

Reading Parameters

Good Read Spot Duration

Disabled

♦ Short

Medium

Long

Successful reading can be signaled by a good read green spot.

Default Configuration

RS232 Standard DEFAULT SETTINGS 115200 baud, no parity, 8 data bits, 1 stop bit, no handshake, no protocol, FIFO enabled, intercharacter delay = 0, intercode delay = 0, serial trigger lock disabled, serial trigger lock disable character = NUL, serial trigger lock enable character = NUL, RX Timeout = 10 sec
USB COM Emulation DEFAULT SETTINGS no handshake, no protocol, FIFO enabled, intercharacter delay = 0, intercode delay = 0
USB Keyboard Emulation DEFAULT SETTINGS USA keyboard*, intercharacter delay = 0, intercode delay = 0, FIFO enabled, keyboard speed = normal
WEDGE Communication DEFAULT SETTINGS USA keyboard*, CapsLock OFF, CapsLock Auto-Recognition ON, NumLock OFF, intercharacter delay = 0, intercode delay = 0
IBM USB Interface DEFAULT SETTINGS device usage = handheld
DATA FORMAT – Symbology Independent Parameters Custom code identifier disabled, code identifier disabled, code length disabled Default headers and terminators*: - RS232: no header, terminator = CR-LF - USB BULK: no header, terminator = CR-LF - USB COM: no header, terminator = CR-LF - USB Generic HID: no header, terminator = CR-LF - Wedge: no header, terminator = ENTER - USB Keyboard: no header, terminator = ENTER - IBM USB: no header, no terminator
DATA FORMAT – Symbology Dependent Parameters symbology specific format = select all, no headers, no terminators, symbology character substitution disabled, symbology character deletion disabled
DATA FORMAT – Concatenation Concatenation disabled, 2 EAN/UPC codes concatenated, Set First Concatenated Code Length 000 = any length, Set Second Concatenated Code Length 000 = any length, Set Third Concatenated Code Length 000 = any length, Set Fourth Concatenated Code Length 000 = any length, Concatenation with Intercode Delay disabled, Concatenation Timeout 10 seconds, Concatenation Failure Transmission = Tx codes causing failure, Transmission after Timeout = No code transmission, Concatenation Result Code ID = No code Identifier

*The default values of these parameters are set when reading the interface selection.

ADVANCED FORMATTING PARAMETERS

format disabled

CAMERA CONTROL

exposure mode = automatic, based on entire image

POWER SAVE

Illumination power = ON

CODE SELECTION

issue identical codes = enable

enabled codes

Standard Code 39: no check digit control, variable code length;

EAN 8/EAN 13 / UPC A/UPC E without ADD ON: UPCE expansion disabled

Code 128: variable code length

PDF417

Datamatrix: rectangular, normal and inverted, variable code length

QR

disabled codes

Code 32, Interleaved 2/5, Codabar, Code 93, EAN 128, GS1 DataBar™, Micro PDF417, Postal Codes, Maxicode, Composite Codes, Aztec.

READING PARAMETERS

trigger type normal, trigger level mode, flash on = 2 sec, flash off = 2 sec, beeper tone = tone 1, beeper volume = high, beeper duration = 50 ms, user defined beeper = tone 1, user defined beeper volume = high, user defined beeper duration = 100 ms, code per scan = one code per scan, read per cycle = one read per cycle, scan timeout = 5 sec, central code transmission = disabled, order by code length = disabled, order by code symbology = disabled, autoscan mode = disabled, autoscan aiming system = enabled, autoscan hardware trigger = enabled, autoscan illumination system = disabled, stand autoscan mode = normal, aiming system delay = disabled, good read spot = short, safety time = 500 ms

IMAGE FORMATTING

Image Preset 1, 2, 3, 4

image format = JPEG, set JPEG quality factor = 50, brightness = 0%, contrast = 0%, zoom = 100%, color depth = 256 gray level.

Operating Test

EAN-13

Code 39 (Standard)

Code 128

PDF417

QR

Data Matrix (Normal)

Technical Features

PowerScan™ PD8530 Family Common Features

Electrical Features		
Operating Voltage		5 to 30 V
Power Consumption		
@ 5V	(Typical)	600 mA
@30V	(Typical)	100 mA
Communications Features		
Standard Interfaces		RS-232, Keyboard emulation AT IBM, USB COM emulation, USB Keyboard emulation
Proprietary Interfaces		USB Bulk, USB Generic HID
Environmental Features		
Operating Temperature		-10° to +55° C (+14° to +131° F)
Storage Temperature		-20° to +70° C (-4° to +158° F)
Humidity		0 to 95% NC
Drop Resistance		2 m / 6.6 ft (over 50 drops to concrete)
IP Sealing		IP65
Mechanical Features		
Dimensions		20.8 x 6.6 x 11 cm / 8.1 x 2.6 x 4.3 in
Weight		295 g / 10.4 oz (without cable)
Decoding Capability		
1D		Interleaved 2 of 5, Code 39, Code 32, Code 128, EAN 128, Code93, UPC/EAN/JAN, Codabar, GS1 DataBar™
2D		Aztec, PDF417, Micro PDF417, Macro PDF417, Maxi-code, DataMatrix (ECC200), QR, Composite Codes
Postal Codes		PLANET, Japan Post, Australia Post, KIX Code, Royal Mail Code (RM4SCC)
Imaging Options		
Image		1280x1024 pixels (Full Resolution)
		640 x 512 pixel format (Half Resolution);
Graphic Format		JPEG, 256 gray levels
		TIFF, 2, 16, 256 gray levels
Optical Features		
Sensor		1280 x 1024 pixel element, 2D CMOS Array
Illuminator		LED array
Wavelength		In the range 630 ~ 670 nm
LED Safety Class		Class 1 to EN 60825-1
Aiming System		Visible Laser Diode
Wavelength		650 nm
Laser Safety Class		Class 2 - EN 60825-1; Class II CDRH
Ambient light		0 - 100000 lux

PowerScan™ PD8530™

Optical Features			
Focus distance	110 mm		
Field of view	39°(H)x25°(V)		
Horizontal field of view at distance (**d**) in mm	0.7**d** + 24		
Vertical field of view at distance (**d**) in mm	0.46**d** + 15		
Max Resolution	**Linear codes - mm (mils)**	**PDF417 - mm (mils)**	**Datamatrix – mm (mils)**
	0.10 (4)	0.10 (4)	0.17 (6.6)
Depth of field*			
1D (linear):	**X-dimension mm (mils)**		**DOF mm (in)**
Code39	0.13 (5)		45 to 75 mm (1.77 to 2.95)
	0.5 (20)		50 to 320 (1.97 to 12.60)
EAN13	0.33 (13)		15 to 220 (0.59 to 8.66)
2D:	**X-dimension mm (mils)**		**DOF mm (in)**
PDF417	0.13 (5)		30 to 70 mm (1.18 to 2.76)
	0.25 (10)		5 to 220 (0.20 to 8.66)
DataMatrix	0.19 (7.5)		45 to 95 (1.77 to 3.74)
	0.25 (10)		15 to 140 (0.59 to 5.51)
Skew	±40°		
Pitch	±35°		
Rotation	360°		
Print Contrast (Min.)	23%		

* Reading distances are measured from the nose of the reader.

NOTE: Typical performance at 20ºC / 68ºF on high quality barcodes.

PowerScan™ PD8530™ HD

Optical Features			
Focus distance	65 mm		
Field of view	27° (H) x 22° (V)		
Horizontal field of view at distance (**d**) in mm	0.50**d** + 13		
Vertical field of view at distance (**d**) in mm	0.40**d** + 10		
Max Resolution	Linear codes - mm (mils)	PDF 417 – mm (mils)	Datamatrix – mm (mils)
	0.05 (2 mils)	0.08 (3 mils)	0.10 (4 mils)
Depth of field*			
1D (linear):	**X-dimension mm (mils)**	**DOF cm (in)**	
Code39	0.08 (3)	4.5 to 8.0 (1.77 to 3.15)	
	0.13 (5)	3.5 to 9.5 (1.38 to 3.74)	
	0.51 (20)	6.0 to 18.5 (2.36 to 7.28)	
EAN13	0.33 (13)	5.0 to 14 (1.97 to 5.51)	
2D:	**X-dimension mm (mils)**	**DOF cm (in)**	
PDF417	0.08 (3)	5.0 to 8.5 (1.97 to 3.35)	
	0.13 (5)	4.5 to 9.5 (1.77 to 3.74)	
	0.25 (10)	3.0 to 13.0 (1.18 to 5.12)	
QR	0.10 (4)	5.5 to 7.5 (2.17 to 2.95)	
	0.19 (7.5)	5.0 to 8.0 (1.97 to 3.15)	
	0.25 (10)	4.5 to 9.5 (1.77 to 3.74)	
DataMatrix	0.10 (4)	5.5 to 7.5 (2.17 to 2.95)	
	0.19 (7.5)	5.0 to 8.0 (1.97 to 3.15)	
	0.25 (10)	4.5 to 9.5 (1.77 to 3.74)	
Skew	±40°		
Pitch	±35°		
Rotation	360°		
Print Contrast (Min.)	23%		

Reading distances are measured from the nose of the reader.

NOTE: Typical performance at 20ºC / 68ºF on high quality barcodes.

PowerScan™ PD8530™ WA

Optical Features			
Focus distance	115 mm		
Field of view	54° (H) x 45° (V)		
Horizontal field of view at distance (**d**) in mm	1.04**d** + 40		
Vertical field of view at distance (**d**) in mm	0.40**d** + 10		
Max Resolution	**Linear codes - mm (mils)**	**PDF 417 – mm (mils)**	**Datamatrix – mm (mils)**
	0.13 (5 mils)	0.13 (5 mils)	0.19 (7.5 mils)
Depth of field*			
1D (linear):	**X-dimension mm (mils)**	**DOF cm (in)**	
Code39	0.13 (5)	2.5 to 10.0 (0.98 to 3.94)	
	0.51 (20)	1.5 to 32 (0.59 to 12.60)	
EAN 13	0.33 (13)	1.5 to 26.0 (0.59 to 10.24)	
2D:	**X-dimension mm (mils)**	**DOF cm (in)**	
PDF417	0.13 (5)	3.0 to 10.5 (1.18 to 4.13)	
	0.25 (10)	1.5 to 21.5 (0.59 to 8.46)	
QR	0.19 (7.5)	5.5 to 8.5 (2.17 to 3.35)	
	0.25 (10)	3.0 to 12.5 (1.18 to 4.92)	
DataMatrix	0.19 (7.5)	5.5 to 8.5 (2.17 to 3.35)	
	0.25 (10)	3.0 to 12.5 (1.18 to 4.92)	
Skew	±40°		
Pitch	±35°		
Rotation	360°		
Print Contrast (Min.)	15%		

Reading distances are measured from the nose of the reader.
NOTE: Typical performance at 20ºC / 68ºF on high quality barcodes.

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 that allows device configuration using a PC. It provides RS-232 interface configuration as well as configuration barcode printing.

Service & Support

- **Technical Support** - Product documentation and programming guides and Technical Support Department in the world
- **Service Programs** - Warranty Extensions and Maintenance Agreements
- **Repair Services** - Flat Rate Repairs and Return Material Authorization (RMA) Repairs.
- **Downloads** – Manuals & Documentation, Data Sheets, Product Catalogues, etc.

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Information Request Form and Sales & Service Network

Datalogic Scanning Limited Factory Warranty

Warranty Coverage

Datalogic warranties 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 Scanning (“Datalogic”) hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update products once sold.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the "factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Datalogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

Warranty Exclusions

The Datalogic Factory Warranty shall not apply to:

(i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;

(ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;

(iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;

(iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;

(v) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items;

(vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;

(vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or

(viii) any consumable or equivalent (e.g., cables, power supply, batteries, keypads, touch screen, triggers etc.).

No Assignment

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.

Compliance

FCC Compliance

Modifications or changes to this equipment without the express 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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Laser Safety

The PowerScan™ PD8530 hand-held reader is a Class 1 LED product regarding its Illuminator and a Class 2 laser product regarding its Aiming System.

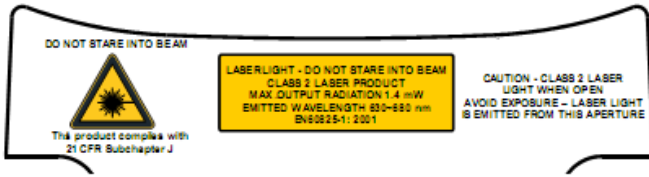
LED Illuminator

The use of an illuminator in the PowerScan™ PD8530 hand-held reader is a Class 1 LED product:

ILLUMINATORE LED CLASSE 1
AUSLEUCHTER LED KLASSE 1
ILLUMINATEUR A LED DE CLASSE 1
ILUMINADOR LED DE CLASE 1

Aiming System

The PowerScan™ PD8530 aiming system meets the Class 2 requirements for laser safety.



I	D	F	E
LA LUCE LASER È VISIBILE ALL'OCCHIO UMANO E VIENE EMESSA DALLA FINESTRA INDICATA NELLA FIGURA.	DIE LASER-STRAHLUNG IST FÜR DAS MENSCHLICHE AUGE SICHTBAR UND WIRD AM STRAHLAUS TRITTSFENSTER 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	A LUZ LÁSER ES VISIBLE AL OJO HUMANO Y ES EMITIDA POR LA VENTANA INDICADA EN LA FIGURA.
LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MASSIMA POTENZA D'USCITA: LUNGHEZZA D'ONDA EMESSA: CONFORME A EN 60825-1 (2001)	LASERSTRAHLUNG NICHT IN DEN STRAHL BLICKEN PRODUKT DER LASERKLASSE 2 MAXIMALE AUSGANGSLEISTUNG: WELLENLÄGE: ENTSPR. EN 60825-1 (2001)	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 PUISSANCE DE SORTIE: LONGUEUR 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 terminal.

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.

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

WARNING

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'appa-recchio per motivi di installazione, utilizzo o manutenzione.

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

ATTENZIONE

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 beschreiben 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.

CAUTION

The PowerScan™ PD8530 Hand-Held Reader is not user-serviceable. Opening the case of the unit can cause internal damage and will void the warranty.

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

WEEE Compliance

	**Waste Electrical and Electronic Equipment (WEEE) Statement**

English

For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.scanning.datalogic.com.

Italian

Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.scanning.datalogic.com.

French

Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site Internet www.scanning.datalogic.com.

German

Informationen zur Entsorgung von Elektro- und Elektronik- Altgeräten (WEEE) erhalten Sie auf der Webseite www.scanning.datalogic.com.

Spanish

Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web www.scanning.datalogic.com.

Portuguese

Para informações sobre a disposição de Sucatagem de Equipamentos Eléctricos e Eletrônicos (WEEE - Waste Electrical and Electronic Equipment), consultar o site web www.scanning.datalogic.com.

Chinese

有关处理废弃电气电子设备（WEEE）的信息， 请参考 Datalogic 公司的网站： http://www.scanning.datalogic.com/。

Japanese

廃電気電子機器（ＷＥＥＥ）の処理についての関連事項は Datalogic のサイト www.scanning.datalogic.com, をご参照下さい。

NOTES

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

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declare que el

POWERSCAN PD8530 ; 2D READER

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		succesivas 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 las siguientes normas:

EN 55022 (CLASS B ITE),: August 1994: Amendment A1 (Class AITE), October 2000:	LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT
EN 61000-6-2, October 2001:	ELECTROMAGNETIC COMPATIBILITY (EMC) PART 6-2: GENERIC STANDARDS - IMMUNITY FOR INDUSTRIAL ENVIRONMENTS

Lippo di Calderara, February 11th , 2008

Ruggero Cacioppo
Quality Assurance Manager

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