

# PowerScan® 8500

## Industrial Handheld 2D Imager

### Specifications

#### OPTICAL CHARACTERISTICS

SENSOR	1280 x 1024 pixels
LIGHT SOURCE	LED array
WAVELENGTH	630 - 670 nm
AIMING	Visible Laser Diode (VLD) @ 650 nm
CAPTURED AREA @150mm / 5.9 in	HIGH DENSITY: 3.4 x 2.7 in / 87 x 69 mm STANDARD: 3.7 x 3 in / 94 x 75 mm WIDE ANGLE: 7.7 x 6.3 in / 197 x 160 mm

#### ELECTRICAL CHARACTERISTICS

OPERATING VOLTAGE	5 - 30 VDC
POWER CONSUMPTION	2.9 W (max)
OPERATING CURRENT	550 mA @ 5 VDC (typical) 95 mA @ 30 VDC (typical)

#### MECHANICAL CHARACTERISTICS

DIMENSIONS	8.1 x 2.6 x 4.3 in / 20.8 x 6.6 x 11 cm
WEIGHT	10.4 oz / 295 g (without cable)

#### ENVIRONMENTAL CHARACTERISTICS






AMBIENT LIGHT IMMUNITY	100,000 Lux
OPERATING TEMPERATURE	14 to 122 °F / -10 to 55 °C
STORAGE TEMPERATURE	-4 to 158 °F / -20 to 70 °C
HUMIDITY (non condensing)	0 to 95%
DROP RESISTANCE	6.6 ft / 2 m (over 50 drops to concrete)
ENVIRONMENTAL PROTECTION	IP65

#### PERFORMANCE

MAX RESOLUTION	1D: 2 mils; PDF417: 3 mil; 2D: 4 mils (High Density) 1D: 4 mils; PDF417: 4 mil; 2D: 6.6 mils (Standard) 1D: 5 mils; PDF417: 5 mil; 2D: 7.5 mils (Wide Angle)
PRINT CONTRAST RATIO (min)	15%
READING ANGLE	Skew: +/-40°, Pitch: +/-35°, Tilt: 360°
BAR CODES	<b>1D:</b> Interleaved 2/5, Code 39, Code 32, Code 128, EAN 128, Code 93, UPC/EAN/JAN, CODABAR, GS1 DataBar™ (formerly RSS) <b>2D:</b> PDF417, Data Matrix (ECC200), QR (Quick Response), Composite Code, MicroPDF, MacroPDF, MaxiCode, Aztec <b>Postal Codes:</b> POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail Code (RM4SCC)

IMAGE FORMAT	.jpg, .tif
INTERFACES	RS-232, Keyboard Wedge, USB (COM and Keyboard Wedge Emulation)
READING INDICATORS	'Good read' green spot on the code, 'Good read' LED's (3GL™ Feedback); Polyphonic Beepers
PROGRAMMING METHOD	<i>Manual:</i> Via bar code menu <i>Automatic:</i> Commands through RS-232/USB COM <i>PC Tools:</i> Datalogic Aladdin™

#### SAFETY & REGULATORY

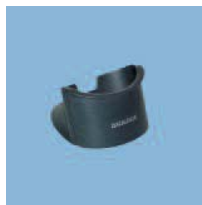
ELECTRICAL	Complies to C-CSA-US (60950 to Canada and USA)
EMISSIONS	Complies to FCC-A, EN 55022-A, AS/NZS 3548 Class 2 (IEC 825-1 and CDRH) 
LASER CLASSIFICATION (AIMING SYSTEM)	
RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS)	Complies with EU RoHS.    

### Reading Characteristics

LABEL DENSITY	STANDARD OPTIC	HIGH DENSITY OPTIC	WIDE ANGLE OPTIC
Code 39 - 3 mil		1.7 - 3.1 in / 4,5 - 8 cm	
Code 39 - 5 mil	2.9 - 6.1 in / 7,5 - 15,5 cm	1.3 - 3.8 in / 3,5 - 9,5 cm	1 - 3.9 in / 2,5 - 10 cm
Code 39 - 10 mil	2.1 - 9.7 in / 5,5 - 24,5 cm	1.5 - 5 in / 4 - 12,5 cm	0.8 - 6.3 in / 2 - 16 cm
Code 39 - 20 mil	2.1 - 14.4 in / 5,5 - 36,5 cm	2.3 - 7.3 in / 6 - 18,5 cm	0.6 - 12.6 in / 1,5 - 32 cm
100% UPC - 13 mil	1.9 - 10.6 in / 5 - 27 cm	1.9 - 5.5 in / 5 - 14 cm	0.6 - 10.2 in / 1,5 - 26 cm
PDF417 - 3 mil		1.9 - 3.4 in / 5 - 8,5 cm	
PDF417 - 5 mil	3.1 - 7.3 in / 8 - 18,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	1.2 - 4.1 in / 3 - 10,5 cm
PDF417 - 10 mil	1.5 - 10 in / 4 - 25,5 cm	1.1 - 5.2 in / 3 - 13 cm	0.6 - 8.4 in / 1,5 - 21,5 cm
Data Matrix - 4 mil		2 - 3 in / 5,1 - 7,6 cm	
Data Matrix - 5 mil		1.9 - 3.1 in / 5 - 8 cm	
Data Matrix - 7.5 mil	3.1 - 6.5 in / 8 - 16,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	2.1 - 3.4 in / 5,5 - 8,5 cm
Data Matrix - 10 mil	2.7 - 7.7 in / 7 - 19,5 cm	1.5 - 4.1 in / 4 - 10,5 cm	1.2 - 4.9 in / 3,2 - 12,5 cm
QR - 7.5 mil	3.1 - 6.5 in / 8 - 16,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	2.1 - 3.4 in / 5,5 - 8,5 cm
QR - 10 mil	2.7 - 7.7 in / 7 - 19,5 cm	1.5 - 4.1 in / 4 - 10,5 cm	1.2 - 4.9 in / 3 - 12,5 cm



**STD-8000 Hands-free Stand**  
Allows use of the reader in hands-free mode.



**HLD-8000 Desk/Wall Holder**  
Provides installation flexibility.



**PC-8000 Protective Case/Belt Holster**  
Allows the reader to be worn on a belt.



**HLS-8000 Universal Holster**  
Can be attached to desktops, work-tables, forklift trucks, etc.



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