INDUSTRIAL CORDED HANDHELD AREA IMAGER BAR CODE READER

The PowerScan 7100/7000 product series are Datalogic ADC's value line of rugged industrial handheld data collection products. The PowerScan 7000 2D linear imaging corded reader is ideal for commercial and industrial applications that need to read mixed symbologies under tough environmental conditions.

The 7000 2D reader supports decoding for standard 1D bar codes, stacked 2D labels such as PDF417, MicroPDF and composites, and matrix 2D labels such as Data Matrix, MaxiCode and QR code, as well as postal codes and OCR fonts. It is also able to capture signatures or images of objects such as shipping damage documentation.

Lightweight, balanced and ergonomic; it allows comfortable handheld use over extended periods of time. Featuring fast omnidirectional scanning and a large depth of field it speeds scanning operations while minimizing motions required to get the scanner in a reading orientation to the labels, whether in a handheld or hands free application.

As with all PowerScan products, the PowerScan 7000 2D reader's mechanics have been developed and tested to withstand extreme environmental conditions while maintaining consistent reading performance. An over mold covers all of the likely drop contact points on the scanner enclosure adding extra degrees of shock protection so that the reader can withstand 50 drops from 2.0 m / 6.5 ft to concrete without breakage or loss of performance. The loud beeper and bright aiming illumination provide intuitive good read feedback in noisy environments. A built-in metal tether hook for suspended applications ensures workplace productivity.

FEATURES

- Optics available in Standard Range and High Density
- High resolution VGA Plus image capture for multiple uses, including signature capture
- Decodes 1D, 2D and stacked codes, plus postal codes and OCR fonts
- Bright aiming illumination to ensure fast, reliable scanning in diverse lighting conditions
- Water and particulate sealing rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- Operates over a wide range of temperatures
- 25kV Electrostatic protection (air discharge)

DECODING CAPABILITY

1D / LINEAR CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code; Aztec Mesas; Data Matrix; MaxiCode; QR Code
OCR CODES	OCR-A; OCR-B
POSTAL CODES	British Post; Canadian Post; China Post; Japanese Post; KIX Post; Planet Code; Postnet
STACKED CODES	Code 49; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417

ELECTRICAL

CURRENT	Operating (Typical): With Aiming: 700 mA @ 5 VDC; Without Aiming: 470 mA @ 5 VDC
	Standby/Idle (Typical): Low Power Mode: 55 mA @ 5 VDC; Normal: 100 mA @ 5 VDC
INPUT VOLTAGE	4 - 14 VDC

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
DROP RESISTANCE	Withstands 50 drops from 2 m / 6.6 ft onto a concrete surface
ESD PROTECTION (AIR DISCHARGE)	25 kV
HUMIDITY (NON-CONDENSING)	5 - 95%
PARTICULATE AND WATER SEALING	IP65
TEMPERATURE	Operating: -30 to 50 °C / -22 to 122 °F
	Storage/Transport: -40 to 60 °C / -40 to 140 °F

INTERFACES

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PHYSICAL CHARACTERISTICS

COLORS AVAILABLE	Yellow/Black
DIMENSIONS	19.0 x 7.5 x 11.5 cm / 7.5 x 3.0 x 4.5 in
WEIGHT	283.0 g / 10.0 oz

READING PERFORMANCE

IMAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
IMAGER SENSOR	VGA Plus: 752 x 480 pixels
LIGHT SOURCE	Aiming: Green LED 526 nm +/- 30 nm
	Illumination: Red LED 626 nm +/- 30 nm
PRINT CONTRAST RATIO (MINIMUM)	37%
READING ANGLE	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
READING INDICATORS	Beeper (Adjustable Tone); Good Read LED
RESOLUTION (MAXIMUM)	0.130 mm / 5 mils

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle.
	Printing resolution, contrast, and ambient light dependent.

PS7000 2D High Density
5 mils: 6.6 to 8.1 cm / 2.6 to 4.2 in
6.6 mils PDF: 4.5 to 12.7 cm / 1.8 to 5.0 in
8.3 mils: 2.5 to 20.0 cm / 1.0 to 7.9 in
8.3 mils Data Matrix: 6.1 to 11.9 cm / 2.4 to 4.7 in
10 mils PDF: 3.0 to 16.7 cm / 1.2 to 6.6 in
13 mils: 2.5 to 20.0 cm / 1.0 to 7.9 in

PS7000 2D Standard
6.6 mils PDF: 4.5 to 12.7 cm / 1.8 to 5.0 in
8.3 mils: 6.3 to 16.7 cm / 2.5 to 6.6 in
8.3 mils Data Matrix: 6.1 to 11.9 cm / 2.4 to 4.7 in
10 mils PDF: 3.0 to 16.7 cm / 1.2 to 6.6 in
13 mils: 2.8 to 31.0 cm / 1.1 to 12.2 in
15 mils Data Matrix: 3.3 to 23.3 cm / 1.3 to 9.2 in
35 mils Maxi Code: 2.5 to 30.5 cm / 1.0 to 12.0 in

SAFETY & REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use.
	The Quick Reference Guide for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS

WARRANTY

WARRANTY	5-Year Factory Warranty

ACCESSORIES ....

Cases/Holsters
• 11-0138 Heated Holder, 36 V
• 11-0139 Heated Holder, 24 V
• 11-0140 Heated Holder, 48 V

Mounts/Stands
• 11-0110 Hands Free Stand
• 11-0111 Universal Mounting Kit for PowerScan
• 7-0404 Industrial Take Up Reel