

PowerScan® 2D Imager

Industrial Strength Imaging Scanner

Data Sheet



Ideal For:

- Warehousing
- Transportation & Logistics
- Package Distribution
- Electronic Assembly
- Heavy-Duty Manufacturing
- Retail

Features:

- Industry Leading Environmental Performance in shock/drop, sealing and temperature extremes
- High Performance Image Capture and Omni-directional, point-and-shoot label reading
- Ergonomic, Over-Molded Enclosure with integrated metal tether hook and cable retainer
- Bright Aiming Illumination to Ensure Fast, reliable scanning in diverse lighting conditions
- Flexible Mounting and Storage Accessories Available
- Durable, Solid State Scanning Backed by an Industry Leading Three Year Warranty

Mechanical

Dimensions: 2.7 x 4.4 x 7.2" (6.9 x 11.2 x 18.3 cm)

Weight: 9.6 oz. (272 g) without cable

Electrical

Operating voltage: 4 VDC to 14 VDC

Operating Current (maximum)

Interlaced Aiming: 275 mA @ 5V

Concurrent Aiming: 450 mA @ 5 V

Standby Current (maximum)

Normal Mode: 60 mA @ 5.5V

Low Power Mode: 30 mA @ 5.5V

Environmental

Temperature rating

Operating: 14° to 122° F (-10° to 50° C)

Storage: -40° to 158° F (-40° to 70° C)

Humidity: 5 to 95% NC

Shock: Withstands Multiple 6.5' (2 m) drops to concrete

Vibration: Meets MIL-STD-810E

Water & Dust: IEC529 Rating IP54DW

Optical

Light sources

Red Illumination LEDs: 626nm ± 30nm

Green Aiming LEDs: 520nm ± 30nm

Imager Resolution: VGA, 640 x 480 pixels

Pitch: ± 40°

Skew: ± 40°

Ambient Light Capability: 535 to 100,000 Lux

Depth of Field: See Depth of Field Table below

DEPTH OF FIELD Typical Range Comparisons		
LABEL DENSITY	STANDARD RANGE	HIGH DENSITY
7.5 mil Linear	—	15 - 55"/3.8 - 14.0 cm
8 mil Linear	2.5 - 6.6"/6.4 - 16.8 cm	—
13 mil UPC	1.5 - 11.5"/3.8 - 29.2 cm	1.3 - 7.9"/3.3 - 20.1 cm
6.6 mil PDF417	3.5 - 5.3"/8.9 - 13.5 cm	1.8 - 5.0"/4.6 - 12.7 cm
15 mil Data Matrix	2.7 - 5.5"/6.9 - 15.0 cm	1.3 - 5.0"/3.3 - 12.7 cm
35 mil Maxi Code	1.0 - 12.0"/2.5 - 30.5 cm	1.0 - 9.0"/2.5 - 22.9 cm
Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.		

Decoding Capability

Linear

- Code 11
- Code 28
- Code 39
- Code 93
- UPC/EAN/JAN
- Interleaved 2 of 5
- Code 2 of 5
- RSS
- Many Others

2D

- PDF417
- MicroPDF
- Code 49
- Maxicode
- Data Matrix
- QR Code
- Aztec Mesas
- Aztec
- EAN-UCC Composites
- Others

Postal Codes

- Postnet
- China Post
- KIX
- Canadian Post
- Japanese Post
- Planet Code
- British Post
- Others

OCR

- OCR-A
- OCR-B
- Others

Host Communications RS232C and USB

Accessories

P/N: 7-0462
Universal Kit



P/N: 11-0070

Scan Stand

P/N: 7-0404

Take Up Reel

P/N: 7-0430

Holster/Fork Lift Mount

Safety & Regulatory

Electrical: Complies to TÜV; UL; cUL

Emissions: Complies to FCC; EN 55022-B; CNS13438; AS/NZS 3548; VCCI



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Product specifications are subject to change without notice.

Additional information concerning this product or other PSC products and services can be found at the PSC web site: www.psc.com.

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