

PowerScan® 2D Imager

Industrial Strength Imaging Scanner

Data Sheet



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

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 omnidirectional, point-and-shoot label reading
- Ergonomic, overmolded 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 five year warranty

Decoding Capability

Linear

- Code 11
- Code 128
- UPC/EAN/JAN
- RSS
- Code 39
- Codabar
- Interleaved 2 of 5
- Many Others
- Code 93
- Code 2 of 5

2D

- PDF-417
- Maxicode
- Aztec Mesas
- Aztec
- MicroPDF
- Data Matrix
- EAN-UCC Composites
- Code 49
- QR Code
- Others

Postal Codes

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

OCR

- OCR-A
- OCR-B
- Others

Host Communications: RS-232C and USB

Safety & Regulatory

Electrical: Complies to TÜV; UL; cUL

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



Accessories



A: Universal Mount Kit
B: Holster/Fork Lift Mount

C: Scan Stand
D: Take Up Reel

DEPTH OF FIELD Range Comparisons		
LABEL DENSITY	STANDARD RANGE	HIGH DENSITY
75 mil Linear	—	15 - 55"/38 - 140 cm
8 mil Linear	2.5 - 6.6"/6.4 - 16.8 cm	—
13 mil UPC	15 - 115"/38 - 29.2 cm	1.3 - 7.9"/3.3 - 20.1 cm
6.6 mil PDF-417	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.		

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