

# PowerScan® 2D Imager

Industrial Strength Imaging Scanner



## 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

## Mechanical

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

**Weight:** 272 g (9.6 oz) 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:** -10° to 50° C (14° to 122° F)

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

**Humidity:** 5 to 95% NC

**Shock:** Withstands multiple 2 m (6.5') 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 Range Comparisons		
LABEL DENSITY	STANDARD RANGE	HIGH DENSITY
75 mil Linear	—	3.8 - 14.0 cm / 1.5 - 5.5"
8 mil Linear	6.4 - 16.8 cm / 2.5 - 6.6"	—
13 mil UPC	3.8 - 29.2 cm / 1.5 - 11.5"	3.3 - 20.1 cm / 1.3 - 7.9"
6.6 mil PDF-417	8.9 - 13.5 cm / 3.5 - 5.3"	4.6 - 12.7 cm / 1.8 - 5.0"
15 mil Data Matrix	6.9 - 15.0 cm / 2.7 - 5.5"	3.3 - 12.7 cm / 1.3 - 5.0"
35 mil Maxi Code	2.5 - 30.5 cm / 1.0 - 12.0"	2.5 - 22.9 cm / 1.0 - 9.0"
Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.		

# Data Sheet

## Decoding Capability

### Linear

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

### 2D

- PDF-417
- 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:** RS-232C and USB

## Accessories



A: Universal Mount Kit

B: Holster/Fork Lift Mount

C: Scan Stand

D: Take Up Reel

## Safety & Regulatory

**Electrical:** Complies to TÜV; UL; cUL

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



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