

PowerScan® 7000

Industrial Strength Imaging Scanner



Features:

- Solid state design makes the PowerScan 7000 the most rugged and reliable scanner on the market
- Lowest priced full performance industrial handheld scanner on the market
- Best dust and water sealing (IP65) on the market
- Industry leading standard range depth of field (DOF)
- Full multi-interface capability
- Industry Leading Four Year Warranty

Accessories

- Universal Kit
- Scan Stand
- Take Up Reel
- Holster/Fork Lift Mount
- Power Hood

Mechanical

Dimensions

Height: 190 mm / 7.5"
Width: 75 mm / 3.0"
Length: 115 mm / 4.5"

Weight: 312 g / 11 oz (without cable)

Beeper/Speaker: 87 dBA for operator @ 50 cm (typical)

Environmental

Temperature Rating

Operating: -30 to 50°C / -22°F to 122°F
Storage: -40 to 60°C / -40° to 140°F

Humidity: 5 to 95% NC

Shock: Withstands 50 drops from 6.5' / 2 m to concrete

Vibration: Meets MIL-STD-810E

Water & Particulate Sealing: IP65

Optical

Scanning Width: 2" wide at 1" from scanner; 6" wide at 7" from scanner

Minimum Resolution: 4 mil minimum element size

Skew (Yaw): ± 60°

Pitch: ± 65°

Roll: ± 40°

Ambient light capability: Up to 40,000 Lux

Depth of Field: See Depth of Field Table below

DEPTH OF FIELD Range Comparisons

LABEL DENSITY	STANDARD RANGE
5 mil	76 to 15.2 cm / 3 to 6"
75 mil	51 to 40.6 cm / 2 to 16"
10 mil	3.8 to 55.9 cm / 15 to 22"
13 mil	2.5 to 76.2 cm / 1 to 30"
20 mil	2.5 to 106.7 cm / 1 to 42"
55 mil	51 to 203.2 cm / 2 to 80"

Minimum distance determined by symbol length and scan angle.
Printing resolution, contrast, ambient light, temperature, and scan angle dependant.

Data Sheet

Electrical

Input Voltage: +4 to 14 VDC

Input Power (typical)

Operating (idling with no trigger): 1.48 W

Standby (idling with no trigger): 0.96 W

Input Current (typical)

Operating (scanning): 295 mA @ 5 VDC

Standby (idling with no trigger): 190 mA @ 5 VDC

Sleep: 1 mA @ 5V

Decoding Capability (autodiscriminates among)

- Codabar
- Code 93
- Code 128
- Code 128 add-ons
- Code 128 ISBT
- EAN 128
- MSI/Plessey
- Standard 2 of 5
- UPC/EAN/JAN
- PDF-417
- Italian Pharmacode 39
- P2 /P5 add-ons
- RSS-14
- RSS Expanded
- Interleaved 2 of 5

Host Communications

RS-232, Keyboard Wedge, USB, Wand Emulation, IBM 46XX, and USB (IBM SurePos).

In addition to standard PC/AT/PS/2, the keyboard wedge interface supports the following: Wyse 55, 60, 120, 150, etc.; IBM 347X/3487/31XX; Digital VT220, 240, 320, 420, 510, 520; Sun 420, ITX, and Sparc 5/10.

Safety & Regulatory

Electrical: Complies to GostR; UL; cUL; EN60950

Emissions: Complies to FCC; EN 55022; CISPR22; VCCI

Laser Classification: CDRH Class II,

(Caution: Laser Radiation - do not stare into beam); IEC 60825 Class 2

Restriction of Hazardous Substances: Complies to EU RoHS



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PowerScan® 7000 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 cable retainer and stainless steel tether hook
- 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

- Height: 190 mm / 7.5"
- Width: 75 mm / 3.0"
- Length: 115 mm / 4.5"

Weight: 283 g / 10 oz (without cable)

Environmental

Temperature rating

- Operating: -30° to 50° C / -22 to 122° F
- Storage: -40° to 60° C / -40° to 158° F

Humidity: 5 to 95% NC

Shock: Withstands 50 2 m / 6.5' drops to concrete

Vibration: Meets MIL-STD-810E

Water & dust: IEC529 Rating IP65DW

Electrical

Operating voltage: 4.0 VDC to 14 VDC

Operating current (average)

- Interlaced aiming: 470 mA @ 5V
- Concurrent Aiming: 700 mA @ 5 V

Standby current (average)

- Normal mode: 100 mA @ 5.5V
- Low power mode: 55 mA @ 5.5V

Optical

Light sources

- Red illumination LEDs: 626nm ± 30nm
- Green aiming LEDs: 526nm ± 30nm

Imager resolution: VGA Plus, 752 x 480 pixels

Pitch: ± 40°

Skew: ± 40°

Ambient Light Capability: 0 to 100,000 Lux

Depth of field: See depth of field table below

DEPTH OF FIELD Range Comparisons	
Standard Range Model	
LABEL DENSITY	STANDARD RANGE
6.6 mil PDF	8.9 - 13.2 cm / 3.5 - 5.2"
8.3 mil Code 39	6.3 - 16.7 cm / 2.5 - 6.6"
10 mil PDF	5.3 - 20.3 cm / 2.1 - 8.0"
13 mil UPC	2.8 - 31.0 cm / 1.1 - 12.2"
15 mil Data Matrix	3.3 - 23.3 cm / 1.3 - 9.2"
35 mil Maxi Code	2.5 - 30.5 cm / 1.0 - 12.0"
High Density Model	
LABEL DENSITY	STANDARD RANGE
5 mil Code 39	6.6 - 8.1 cm / 2.6 - 4.2"
6.6 mil PDF	4.5 - 12.7 cm / 1.8 - 5.0"
8.3 mil Code 39	2.5 - 20.0 cm / 1.0 - 7.9"
8.3 mil Data Matrix	6.1 - 11.9 cm / 2.4 - 4.7"
10 mil PDF	3.0 - 16.7 cm / 1.2 - 6.6"
13 mil UPC	2.5 - 20.0 cm / 1.0 - 7.9"
Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.	

Data Sheet

Host Communications

- RS-232C
- Keyboard Wedge
- USB

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
- EAN-UCC Composites
- Others
- Aztec

Postal Codes

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

OCR

- OCR-A
- OCR-B
- Others

Safety & Regulatory

Electrical: Complies to TÜV; UL; cUL

Emissions: Complies to FCC; EN 55022-B; CNS 13438; AS/NZS 3548; VCCI

Restriction of Hazardous Substances: Complies to RoHS



Accessories

- Holster/Fork Lift Mount
- PowerHood padded cover
- Hands-free stand
- Universal Mounting Kit
- Industrial Take-up Reel
- Heated Holder
- Power supplies and cables
- Optional service offerings may include 2-day, 5-day and Quick Replacement programs

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PowerScan® 7000BT SRI

Data Sheet

Industrial Strength RF Imaging Scanner



Features

- Solid state design makes the PowerScan 7000BT SRI the most rugged and reliable RF scanner on the market
- Bluetooth Wireless Technology with up to 100 m / 328' range
- Can be used with connectivity through the Base Station or directly to other Bluetooth devices
- Best dust and water sealing (IP65) on the market
- Industry leading standard range depth of field (DOF)
- Full multi-interface capability

Accessories

- Four-slot battery charger
- Scan stand
- Take-up reel
- Holster/fork lift mount
- PowerHood

Mechanical

Scanner

Dimensions: 203 x 76 x 115 mm / 8.0 x 3.0 x 4.5"

Weight: 383 g / 13.5 oz

Base Station (antenna down)

Dimensions: 239 x 117 x 48 mm / 9.4 x 4.6 x 1.9"

Weight: 358 g / 12.6 oz

Beeper/Speaker: 87 dBA for operator @ 50 cm (typical)

Environmental

Temperature Rating

Storage (Scanner/Battery): -20 to 60° C / -4° to 140° F

Storage (Base): -40 to 60° C / -40° to 140° F

Operating: -20 to 50° C / -4° to 122° F

Charging: 0 to 45° C / 32° to 113° F

Humidity: 5 to 95% NC

Shock: Withstands 50 drops from 2 m / 6.5' to concrete

Vibration: Meets MIL-STD-810E

Water & Particulate Sealing: IP65

Optical

Scanning Width: 2" wide at 1" from scanner; 6" wide at 7" from scanner

Minimum Resolution: 3 mil minimum element size

Skew (Yaw): ± 60°

Pitch: ± 65°

Roll: ± 40°

Depth of Field: See Depth of Field Table below

DEPTH OF FIELD Range Comparisons	
LABEL DENSITY	STANDARD RANGE
5 mil	76 to 15.2 cm / 3 to 6"
75 mil	51 to 40.6 cm / 2 to 16"
10 mil	3.8 to 55.9 cm / 15 to 22"
13 mil	2.5 to 76.2 cm / 1 to 30"
20 mil	2.5 to 106.7 cm / 1 to 42"
55 mil	5.1 to 203.2 cm / 2 to 80"

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, ambient light, temperature, and scan angle dependant.

Electrical

External power input requires PSC approved power supply

Input voltage (base station): +4.0 to 14.0V power off terminal

Input current (nominal)

Charger Empty; Radio Operating: 100 mA

Battery in Fast Charge: 1.2A

Battery Charge Times

In Base Station: Less than 4 hours

In Optional Charger: Less than 4 hours

Decoding Capability (autodiscriminates among)

- Codabar
- Code 93
- Code 128
- Code 128 add-ons
- Code 128 ISBT
- EAN 128
- MSI/Plessey
- Standard 2 of 5
- UPC/EAN/JAN
- PDF-417
- Italian Pharmacode 39
- P2 /P5 add-ons
- RSS-14
- RSS Expanded
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Host Communications

RS-232, Keyboard Wedge, USB, Wand Emulation, IBM 46XX, and USB (IBM SurePos).

In addition to standard PC/AT/PS/2, the keyboard wedge interface supports the following: Wyse 55, 60, 120, 150, etc.; IBM 347X/3487/31XX; Digital VT220, 240, 320, 420, 510, 520; Sun 420, ITX, and Sparc 5/10.

Safety & Regulatory

Electrical: Complies to UL; cUL; EN60950

Emissions: Complies to FCC; EN 55022; CISPR22

Radio: FCC Part 15C, R and TTE, and IC

Laser Classification: CDRH Class II,

(Caution: Laser Radiation - do not stare into beam); IEC 60825 Class 2

Restriction of Hazardous Substances: Complies to EU RoHS



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