

SP400 Handheld Scanners

For Demanding Retail & Industrial Environments

- **Designed for POS, back-room inventory, warehouse, and manufacturing applications**
- **Three models to choose from**

The SP400: Setting The Standard

When it comes to demanding high performance data capture applications, the SP400 family of handheld scanners from PSC sets the standard for performance, ergonomics, and durability.

You can count on the SP400 for fast, accurate bar code reads. All SP400 models combine patented signal processing technology, a long depth-of-field, and wide angle reading for aggressive, handheld scanning.

The Standard SP400 supports most popular bar code symbologies, automatically discriminating among up to 13 different codes. A high density model—the **SP400HD**—is designed to read bar codes as small as 3.5 mil, and as large as 20 mil in both retail and industrial applications.

The Ergonomic Leader

The attractive, uniquely designed SP400 fits comfortably in any hand, and features “scoop and scan” ease—always ready for immediate operation as soon as it’s picked up. Plus, the SP400’s lightweight, balanced design permits long-term use without fatigue.

Built To Last

The SP400’s rounded head and cushioned internal assembly re-distribute shock and protect the scanner from damage when dropped. In fact, the SP400 has been proven reliable after more than 10 five-foot drops onto concrete.



All SP400s feature a tough, rubber bumper around the scan head to protect the scan window and prevent slipping on the countertop. The flexible, rubber cable end-cap is wear and tear resistant.

For added protection in the most rugged application environments, the Standard SP400 and SP400HD models can be ordered with **Extreme Performance** features. With Extreme Performance, the SP400 is equipped with special seals to block moisture and dust common in many industrial environments. The Extreme Performance configuration even includes enhanced shock protection that can withstand an average of 30, five-foot drops onto concrete.

For Easy Integration—The SP400 Worldwide Wedge™

For the ultimate in flexible connectivity, the SP400 Worldwide Wedge is the solution. The SP400WW model supports more than 2,000 PC and terminal

variations and can accommodate future integration requirements.

The SP400WW has three interface solutions built in; RS232, Keyboard Wedge and Wand Emulation. You select and configure your desired interface by simply changing the interface cable and scanning a few bar codes. The SP400WW also features label programming, which allows quick and easy configuration of your scanner for those special requirements.

Additional Features

- Choice of optimized POS & industrial optical configurations (Standard SP400 & SP400WW only)
- Positive response trigger mechanism minimizes accidental reads
- Ergonomically-placed “good read” LED is visible from all sides of the scanner
- Programmable audio signal
- Low-power, compact visible laser diode increases reliability in rugged environments
- Variety of flexible mounting and storage accessories available



When You Need To Read A Bar Code

SP400 Handheld Scanners

SPECIFICATIONS

MECHANICAL

Dimensions 6.75 x 4.25 x 2.75"
(17 x 10.8 x 7 cm)

Weight

• **Body** Undecoded: 6.5 ozs. (0.18 kg)
Decoded: 7.0 ozs. (0.20 kg)

• **Cable** 3.7 ozs. (0.10 kg)

Cable length options Collapsed: 20" (51 cm),
Extended: 8' (2.4 m);
Collapsed: 56" (142 cm), Extended: 11' (3.4 m)

(For other cable options, contact your PSC sales representative.)

OPTICAL

Light source 670nm Visible Laser Diode (VLD)

Scan system Rotating polygon

Rate 40 scans/sec. (maximum)

Depth-of-field
(resolution, contrast, & ambient light dependent)

SP400 / SP400WW Industrial:
0 to 27" (0 to 69 cm)
SP400WW POS: 0 to 16" (0 to 41 cm)
SP400HD: 0 to 9" (0 to 23 cm)

Resolution SP400 / SP400WW: ≥ 5 mils
SP400HD: ≥ 3.5 mils

Print contrast ratio 20% minimum

Pitch ±60°

Skew ±75°

Ambient light Unaffected by direct exposure
to normal office, store or
factory lighting conditions

ELECTRICAL

Operating voltage 4.75V to 14VDC

Operating current - nominal
Undecoded: 85mA at 5VDC
Decoded: 140mA at 5VDC

Idling current - nominal
Undecoded: 10µA at 5VDC
Decoded: 45µA at 5VDC

ENVIRONMENTAL

Temperature rating

• **Operating** Standard: 32° to 122° F
(0° to 50° C)
Extreme Performance: 32° to 122° F
(0° to 50° C)
with excursions* to -22° F (-30°C)

*Contact Customer Service for further information.

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

Humidity 5 to 95% NC

Shock (at 23°C) Standard: withstands
10+ random five-foot drops onto
concrete / 100+ drops to bench top.
Extreme Performance: withstands an
average of 30 five-foot drops onto concrete.

Vibration Operates in all normal and
heavy industrial environments.

Water & Dust Standard: Resistant,
IEC529 rating IP40DW
Extreme Performance: Sealed against
wind blown rain and dust,
IEC529 rating IP54DW

DECODING CAPABILITY

UPC A, E / EAN 8,13 / JAN 8, 13

Industrial Codes

- Code 128
- Code 39
- Interleaved 2 of 5
- Standard 2 of 5
- Codabar
- MSI / Plessey
- Code 49 (SP400HD only)
- Telepen (SP400WW only)
- Matrix 2 of 5 (SP400WW only)
- Code IATA & 3W7 (SP400WW only)

COMMUNICATIONS

SP400 / SP400HD IBM 468X (Ports 5B,
9B, 17 & E); IBM 469X (Ports 5B,
9C and 9E); OCIA (NCR, SNI, PSC, 9-Bit); 6-Bit
(Fujitsu, OMRON, SWEDA); PC Keyboard Wedge;
MDL (multidrop); RS232 (Standard, TTL);
Wand Emulation; Undecoded (Standard,
Intermec compatible); Multi-interface—up to
six interfaces (dependent upon type of interface)

SP400WW RS232; Wand Emulation;
PC Keyboard Wedge

SAFETY / REGULATORY

Electrical Complies to: TÜV, DEM, FIN,
NEM, SEM, UL, and cUL

Emissions Complies to: FCC-A, VDE-B,
EN 55022-B, and AS/NZS 3548

Laser classification CDRH Class II;
IEC 60825 Class 1 & 2



Specifications Subject To Change Without Notice.
For further information, contact your PSC representative.

PSC

When You Need To Read A Bar Code

Worldwide Corporate Headquarters:

PSC INC. • 675 Basket Road • Webster, New York USA 14580-9787 • Tel: (800) 828-6489 or [1] (716) 265-1600 • Fax: [1] (716) 265-6400
Internet: <http://www.pscnet.com> • E-mail: mktg@pscnet.com

Additional Manufacturing Sites

PSC
Scanning, Inc.
Eugene, OR USA
Tel: (800) 547-2507
[1] (541) 683-5700
Fax: [1] (541) 686-1702

PSC
Automation, Inc.
Webster, NY USA
Tel: (800) 843-2700
[1] (716) 265-1600
Fax: [1] (716) 265-6400

Sales & Service Offices Worldwide

Australia
PSC Asia Pacific Pty Ltd.
Sydney
Tel: [61] 0 (2) 9878 8999
Fax: [61] 0 (2) 9878 8688

Italy
PSC S.R.L.
Milano
Tel: [39] 0 (39) 629031
Fax: [39] 0 (39) 6859496
[39] 0 (39) 6859497

Belgium
PSC Belgium, Inc.
Brussels
Tel: [32] (2) 414 74 09
Fax: [32] (2) 410 11 63

Japan
PSC Japan K.K.
Tokyo
Tel: [81] 0 (3) 3491-6761
Fax: [81] 0 (3) 3491-6656

China
PSC Scanning, Inc.
Beijing
Tel: [86] (10) 6 857 8699
Fax: [86] (10) 6 857 8699

Latin America
PSC S.A., Inc.
Miami, FL USA
Tel: [1] (305) 539-0111
Fax: [1] (305) 539-0206

France
PSC S.A.R.L.
Paris
Tel: [33] 0 (1) 64 86 71 00
Fax: [33] 0 (1) 64 46 72 44

Spain
PSC S.A.R.L.
Sucursal en España
San Fernando de Henares
Tel: [34] 9 (1) 656 7525
Fax: [34] 9 (1) 656 8485

Germany
PSC GmbH
Darmstadt
Tel: [49] (6151) 93 58-0
Fax: [49] (6151) 93 58 58

Sweden
PSC Bar Code Limited
Malmö
Tel: [46] 0 (40) 10 84 90
Fax: [46] 0 (40) 10 84 91

Hong Kong
PSC Hong Kong
Tel: [852]-2-584-6210
Fax: [852]-2-521-0291

United Kingdom
PSC Bar Code Limited
London
Tel: [44] 0 (1923) 809500
Fax: [44] 0 (1923) 809505