

## HAND-HELD BAR CODE SCANNER

# ScanPlus™ 1800

### Benefits:

- **Choice of scanning technologies: CCD or Laser**
- **Ergonomic, easy to pick up and use**
- **Fast reading and decoding of all bar codes; even damaged or poorly printed codes**
- **Single, universal interface. Cable provides for simple connectivity to PCs and hundreds of terminals**
- **Fastest ever setup using EasySet™ System software for Windows™. Print and scan a bar code menu or download a configuration to flash memory**
- **Highly cost-efficient and flexible solution for Retail, Office, Health-Care and Light Industrial applications**



The ScanPlus 1800 range of hand-held bar code scanners uses the latest patented technology and integrated design for fast and accurate contact and non-contact scanning.

The S1800 incorporates innovative solutions for:

- Different depths of field
- Easy connectivity
- Changing setup requirements
- Selecting linear (1D) and stacked (2D) bar codes, including PDF417

S1800 scanners can be ordered with one of two scan engines:

- SR (CCD linear image) scan engine for close reading applications (0 to 10cm/4")
- ST (Laser) scan engine for applications requiring a longer depth of field (to 50 cm/20")

The SR engine features new patented technology that provides a sharp, brightly illuminated scan line for accurate positioning of the scanner. The fast scan rate of up to 400 scans per second ensures intuitive, instant reading.

The ST engine provides an excellent depth of field for applications where distance reading is important.

Both options offer simple and reliable scanning in a unique, highly ergonomic shape.

A universal interface system allows each of the S1800 model variants to be connected to many hundreds of PC's, cash registers or other terminals simply by changing the cable and software set-up.

Easy and powerful, the ScanPlus S1800 is a major advance in hand-held scanning.

# ScanPlus™ 1800

## General Description

A high-performance and compact hand-held bar code scanner for Retail, Office, Health-Care and Light Industrial applications

Models available include the ScanPlus 1800 SR, ST and PDF

## Scanning performance

**Performance: 1800 SR and PDF**

**Scan Rate:** 400 scans per sec. max (SR)  
600 scans per sec. max (PDF)

**Minimum X dim:** 0.1 mm (4 mil)

**Depth of field\*:** 0 to 10 cm (4")  
depending on code:

- 0.1 mm (4 mil): 0-2 cm (0-0.8")
- 0.254 mm (10 mil): 0-4 cm (0-1.6")
- 100% EAN /UPC: 0-5.5 cm (0-2.1")
- 0.38 mm (15 mil): 0-6 cm (0-2.4")
- 0.5mm (20 mil): 0-7 cm (0-2.7")
- 0.7 mm (27 mil): 0-10 cm (0-4")

\*Only applies to SR Model

**PCR:** 25% minimum

**Code Width:** 12 cm (4 in.) max  
(X above .254 /10 mil)

**Skew:** + 65°

**Pitch:** + 70°

**Performance: 1800 ST**

**Scan Rate:** 36 s/sec

**Minimum X dimension:** 0.125 (5 mil)

**Depth of field:** up to 50cm (20")  
depending on code:

- 0.125 mm (5 mil): 2.5-8 cm (1-3")
- 0.254 mm (10 mil): 0-20 cm (0-7.9")
- 100% EAN /UPC: 0-25 cm (0-10")
- 0.38 mm (15mil): 0-30 cm (0-12")
- 0.5 mm (20 mil): 0-50 cm (0-20")

**PCR:** 25% minimum

**Skew:** + 55°

**Pitch:** + 65°

## Bar Codes Supported

**All models:** UPC E,A, EAN, Code 39; Interleaved, Matrix, Industrial and Standard 2 of 5; Code 128, UCC EAN 128, Codabar, Code 93, MSI, Plessey.

**1800 PDF:** PDF417

## Host Interfaces

All scanners support (by choice of cable): Wand & Laser emulation, single or dual RS232, IBM 46xx, OCIA and PC AT/PS2 wedge to over 400 terminals and PCs. Extensive interface information on application

## Operator Feedback

Green good read LED. Adjustable beeper

## Design Features

**Processor:** Custom chip (ASIC inc. DSP processor) for fast signal processing and decoding. Special routines for PDF 417. Flash memory

**1800 SR & PDF Optics:** CCD linear image sensor with sharp aiming beam. Light source: red, long life LEDs

**1800 ST Optics:** visible laser diode @ 670nm. Laser Class 2 IEC 825 / CDRH Class II

## Environmental Characteristics

**Operating temperature:** 0° to 40°C (32° to 104°F).

**Storage temperature:** -25° to 60°C (-13° to 140°F).

**Relative humidity:** 10% to 90% non-condensing.

**Shock:** withstands multiple drops of 1m (3.2 ft) to commercial flooring

## Electrical Characteristics

Power requirements: +5VDC +10% current consumption approx. 150mA, depending on configuration

## Physical Characteristics

**Length:** 180 mm (7")

**Width at handle:** 33 mm (1.3")

**Width at head:** 64 mm (2.5")

**Standard cable:** 1.8 m (70")

**Weight without cable:** 1800 SR/PDF: 145g (5.1 oz)

**Weight without cable:** 1800 ST: 165g (5.8 oz)

**Case:** high-impact ABS self-extinguishing plastic. Rubber end cap and boot.

## Special Features

Firmware updates via flash memory, programmable data format (code identification, preambles and postambles, intercharacter and intermessage delays, variable time-out, and many others)

## Configuration

Setup options include EasySet PC Windows™ software, by direct connection, setup bar code printing (custom setup utility) or by conventional bar code setup manual.

## Accessories

Desk/vertical holder (standard), Raised hands-free stand (option).



## Regulatory Approvals

**All models:** Complies with FCC Part 15, CE Directives 89/336/EEC, 72/23/EEC and Low Voltage Directive EN 60742 (1995).



**Regulatory Approvals: 1800 ST only**  
US DHHS Standard 21 CFR 1040, 10 and 1040.11 (1994) as a Class II Laser product, IEC 825-1 (1993) & EN 60825-1 (1994) Class 2.



Where Information Gets Down To Business™

**Internet** • www.intermec.com **E-mail** • info@intermec.com **Telephone** • 800-347-2636 (toll free in N. Am.) **Service and Support** • 800-755-5505 (toll free in N. Am.)

**North America** ▶ Headquarters • 6001 36th Avenue West, Everett, WA 98203-9280, tel: 800-347-2636 (toll free in N. Am.), fax: 661-775-4440  
Norand Mobile Systems Division • 550 2nd Street S.E., Cedar Rapids IA 52401, tel: 800-452-2757 (toll free in N. Am.), fax: 319-369-3453  
Amtech Systems Division • 19111 Dallas Parkway, Suite 300, Dallas, TX 75287-3106, tel: 800-923-4824 (toll free in N. Am.), fax: 972-733-6699  
Label Products & Supplies • tel: 800-227-9947 (toll free), 513-874-5882 (direct), fax: 800-227-1707 (toll free), 513-874-8487 (direct)

**Europe / Middle East & Africa** ▶ Sovereign House, Vastern Road, Reading, Berkshire, RG1 8BT United Kingdom, tel: 44-118-987-9400, fax: 44-118-987-9401

**Asia Pacific / Latin America** ▶ Hong Kong • 26-12 Shell Tower, Times Square, 1 Matheson Street, Causeway Bay, tel 852-2574-9777, fax 852-2574-9725  
Singapore • #25-16 International Plaza, 10 Anson Road, 079903, tel: 65-324-8391, fax: 65-324-8393  
Australia • 15 Stamford Road, Oakleigh Victoria 3166, tel: 61-3-9563-0000, fax: 61-3-9563-4000  
South America and Mexico • 2572 White Road, Irvine, CA 92614, tel: 949-975-1905 Ext. 1939, fax: 949-975-1827

**Worldwide Fax Document Retrieval Service** • tel: 800-755-5505 (toll free in North America), 650-556-8447 (direct)

Copyright © 1999 Intermec Technologies Corporation. All rights reserved. All trademarks are the property of their respective owners. Contents subject to change. Printed in the U.S.A. #608601B 8/99

