

Product Profile

- 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



SCANPLUS® 1800 SCANNER

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.

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.

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)

1800 ST: 165g (5.8 oz)

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

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

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°

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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

Electrical Characteristics

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

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.

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Our customers turn to us to help them become more productive and profitable. TPI's expertise guarantees your project will be successful: on time, on budget and meet your ROI requirements.

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- ✓ *Mobile computers*
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- ✓ *Configuration and deployment*
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- ✓ *Remote device management and support*

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Product specification sheet provided by TPI

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