

HAND HELD BAR CODE SCANNER

ScanPlus 1800

Benefits

- Ergonomic, easy to pick up and use all day long
- Fast reading and decoding of all bar codes; even damaged or poorly printed codes
- Choice of short range (CCD) or standard range (laser) scanner
- Single, universal interface. Cable provides for simple connectivity to PCs and hundreds of terminals
- Fast 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, Healthcare and Light Industrial applications



The ScanPlus model 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 ScanPlus 1800 incorporates innovative solutions for:

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

ScanPlus model 1800 scanners can be specified with one of two scan engines:

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

The CCD engine features a sharp, brightly illuminated scan line for

accurate positioning of the scanner. The fast scan rate (up to 400 scans per second) ensures high performance, snappy scanning.

The laser engine provides an excellent depth-of-field for applications requiring longer range scanning.

The highly ergonomic shape of the ScanPlus 1800 provides comfortable, reliable and easy to use scanning all day long.

A universal interface allows each ScanPlus model configuration to connect to hundreds of PCs, cash registers or other terminals simply by changing the cable and software set-up.

Easy and powerful, the ScanPlus 1800 is a new generation in hand-held scanning comfort and performance.

ScanPlus 1800

General Description

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

ScanPlus 1800 is configured with a CCD or laser engine

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: CCD versions:
145 g (5.1 oz)

Weight without cable: laser versions:
165 g (5.8 oz)

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

Performance

ScanPlus 1800 short range scanner (with CCD Engine):

Scan Rate: 400 scans per second maximum

Minimum X-dimension: 4 mil (0.1 mm)

Depth of field: 10 cm (0 - 4") depending on code:

4 mil (.1 mm): 0 - 2 cm (0 - .8")
10 mil (.254 mm): 0 - 4 cm (0 - 1.6")
100% UPC/EAN: 0 - 5.5 cm (0 - 2.1")
15 mil (.38 mm): 0 - 6 cm (0 - 2.4")
20 mil (.5 mm): 0 - 7 cm (0 - 2.7")
27 mil (.7 mm): 0 - 10 cm (0 - 4")

Print Contrast Ratio: 25% minimum

Code Width: 12 cm (4") maximum (X-dimension above 10 mil/.254 mm)

Skew: $\pm 65^\circ$

Pitch: $\pm 70^\circ$

Performance

ScanPlus 1800 standard range scanner (with Laser Engine):

Scan Rate: 36 scans per second

Minimum X-dimension: 5 mil (.125mm)

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

5 mil (.125 mm): 2.5 - 8 cm (1 - 3")
10 mil (.254 mm): 0 - 20 cm (0 - 7.9")
100% UPC/EAN: 0 - 25 cm (0 - 10")
15 mil (.38 mm): 0 - 30cm (0 - 12")
20 mil (.5 mm): 0 - 50 cm (0 - 20")

Print Contrast Ratio: 25% minimum

Skew: $\pm 55^\circ$

Pitch: $\pm 65^\circ$

Operator Feedback

Green good read LED. Adjustable beeper volume.

Bar Codes Supported

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

Stacked codes: PDF417, Codablock (CCD engine only)

Host Interfaces

All scanners support (by choice of cable): Wand & Laser emulation, single or dual RS-232, IBM 46xx, OCIA and PC AT/PS2 wedge to over 400 terminals and PCs. Extensive interface information on application.

Design Features

Processor: Custom chip (ASIC inc. DSP processor) for fast signal processing and decoding. Special routines for PDF417. Flash memory.

CCD Optics: CCD linear image sensor with sharp aiming beam. Light source: red, long life LEDs

Laser 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 3.2' (1 m) to commercial flooring

Electrical Characteristics

Power requirements: +5 VDC $\pm 10\%$ (12 VDC option) current consumption approximately 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.

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 60647 (1995).

Laser version 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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