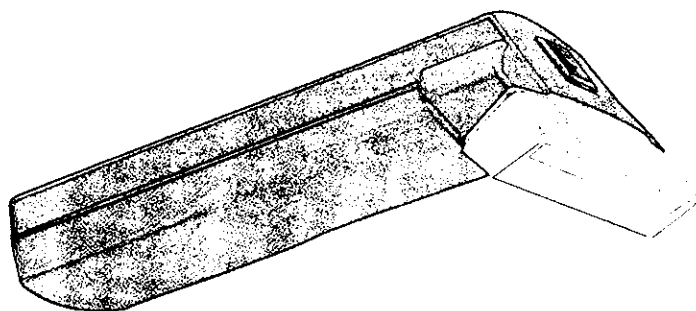


SCANPLUS SP

HAND-HELD CCD SCANNER FOR READING BAR CODES



ScanPlus SP is an advanced hand-held CCD scanner designed to read bar codes quickly and easily. ScanPlus SP incorporates UBI's full range of keyboard wedges, RS-232, and cash register interfaces, making it compatible with virtually all popular host systems. Its ergonomic design and aggressive performance make it a superior choice wherever bar codes are used to enhance productivity.

FEATURES

High Speed: The user can set the ScanPlus SP to read at 50 to 230 scans per second, providing nearly instant reading of all codes, including those printed poorly, placed on curved surfaces, or covered with a laminate.

High Resolution: The ScanPlus SP reads codes in all densities, including very high density codes with bars as narrow as .005 inches (.12 mm).

Excellent Depth of Field: Depending on the density of the code, ScanPlus SP can read at distances of up to 1.3 inches (33 mm).

Highly Ergonomic: ScanPlus SP weighs only 4.6 ounces (132 g), is easy to pick up, and is perfectly balanced. Scanning is intuitive: the user holds the mouth of the ScanPlus SP over the code and it reads immediately. No aiming or trigger pulling is necessary. A bracket to hang the unit on the side of the terminal is included with each unit. A hands-free stand is available as an option.

BENEFITS

Highly Reliable: ScanPlus SP contains no moving parts, and its internal design is simplified to provide maximum reliability and durability. The unit functions normally after repeated 5-foot drops to commercial flooring.

Easy to Install, Easy to Use: Installing the ScanPlus SP is a matter of plugging in a few cables. It is not necessary to open the host system or to use any tools.

Versatile: ScanPlus SP can be configured by the user for just about any terminal or PC, providing portability and upgradability.

Suitable to Many Environments: ScanPlus SP's good looks, lack of moving parts, solid construction, and ease of use suits it to all environments, including retail, industrial, commercial, and institutional. Its LED illumination is ideal for applications in which a non-laser light source is preferred.

S P E C I F I C A T I O N S

Opto-Electronic Design Features

<i>Light Source</i>	Red LED array at 660 nm
<i>Image Sensor</i>	High resolution charge-coupled devices (CCD) linear image sensor.
<i>Microprocessor</i>	16-bit processor with embedded ROM
<i>Video Signal Processing</i>	Numerically controlled

Performance Characteristics

<i>Scan Repetition Rate</i>	50-230 scans per sec (user selectable)
<i>Narrow Bar Resolution</i>	.005 inches (.12 mm)
<i>Print Contract Ratio</i>	30% minimum
<i>Depth of Field</i>	To 1.3 inches (33 mm) depending on density of code and print contrast
<i>Reading Angle</i>	+/-60 degrees from vertical
<i>Maximum Code Length</i>	2.8 inches (71 mm) at contact; 3.3 inches (85 mm) at 1 inch (25 mm) from code
<i>Bar Code Formats</i>	Code 39 (standard or full ASCII), UPC/EAN (in all lengths and variants), Interleaved and Standard 2 of 5, Code 128, Codabar, Ames, MSI, Plessey, Code 11, 16 K, Code 93 (others available upon request)
<i>Interface Capability</i>	Wand or laser emulation, single or dual RS-232, OCIA (TEC or NCR format), IBM 4683, keyboard wedge to over 150 terminals and PCs, parallel (Fujitsu or Sweda type). For a complete list of supported terminals, see UBI's current Interface Guide.
<i>Advanced Features</i>	User programmability of data format, interface identification, code identification, preambles and postambles, intercharacter and intermessage delays, and many others

Physical Characteristics

<i>Case Material</i>	High impact ABS plastic with rubber end piece.
<i>Length</i>	6.45 inches (164 mm)
<i>Width at Handle</i>	1.85 inches (47 mm)
<i>Width at Head</i>	3.0 inches (77 mm)
<i>Thickness at Handle</i>	1.2 inches (31 mm)
<i>Height from Resting Surface</i>	1.4 inches (36 mm)
<i>Cord Length Retracted</i>	59 inches (1.5 m)
<i>Cord Length Extended</i>	138 inches (3.5 m)
<i>Weight without Cord</i>	4.6 ounces (132 g)
<i>Weight with Cord</i>	7.6 ounces (216 g)

Electrical Specifications

<i>Power Requirements</i>	+5 VDC \pm 5% at 90-130 mA, depending on configuration
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User Environment

<i>Operating Temperature</i>	32 to 122° F (0 to 50° C)
<i>Storage Temperature</i>	4 to 160° F (-20 to 70° C)
<i>Relative Humidity</i>	5% to 95% (non-condensing)
<i>Shock</i>	Unit functions normally after multiple 5-foot drops to commercial flooring
<i>Operator Interface</i>	On-board beeper sounds on good read. LED mounted in handle turns on and off upon good read. Either or both operator interface signals can be deactivated by bar code menu.

