

P300PRO

Industrial 2-D Bar Code Scanner



BAR CODE SCANNERS

High-Performance Industrial Scanner

The P300PRO from Symbol Technologies is the industrial hand-held laser scanner for unsurpassed high-volume 2-D bar code scanning. The P300PRO offers more than just an award-winning ergonomic shape, it provides time-saving features like laser spot mode and smart raster to deliver unrivaled sub-second decoding on both 2-D and 1-D symbols.

Designed for Extreme Environments (XE)

The P300PRO meets the most stringent industrial standards, earning the Symbol XE class label. It is sealed to the IP54 specification against windblown dust and rain, and withstands multiple 6 ft./1.8 m drops to concrete over the entire temperature range of -22° to 122° F/-30° to 50° C.

Its XE class ruggedness and high-throughput scanning ability make the P300PRO an ideal choice for a wide range of 2-D and 1-D applications in industrial environments such as distribution centers, manufacturing floors and warehouses.

Innovative Design Features

As innovative as it is rugged, the P300PRO delivers the sophisticated ergonomic and operational features industrial applications demand. The scanner's exit window is scratch-resistant and recessed to prevent damage from direct contact. A twist-to-lock cable seals the scanner and provides superior strain relief. For those applications requiring quick access and out-of-the-way storage, the P300PRO comes with a built-in metal hook for attachment to a pulley. And the large, LED-enhancing window and extra loud 75 dB twin beepers make the "good decode" feedback impossible to miss. The P300PRO also utilizes the award-winning Phaser "handle-forward" design making the scanner extremely comfortable to hold and reduces fatigue when scanning throughout a full shift in scan-intensive applications.

High-Productivity Scanning

When high-productivity scanning is required, the P300PRO delivers 560 scans per second for faster 2-D and 1-D bar code reading. This high-performance field-proven 650 nm laser technology makes easy work of difficult applications like scanning through layered plastic wrap or glass such as an automobile windshield. In addition to great performance, the P300PRO excels at handling real-world conditions such as poor ambient lighting, conveyer belt vibrations and hand jitter caused by fast-paced volume scanning.

With point-and-shoot aiming, the programmable laser spot mode focuses the laser output into a very bright, concentrated spot for easy sighting on symbols even in direct sunlight.



Features	Benefits
XE-class durability	Withstands multiple 6 ft./1.8 m drops to concrete over entire temperature range
Sealed to IP54 standard	Protected from windblown dust and rain
High-speed scanning	Faster PDF417 and 1-D bar code at 560 scans/second
Laser Spot Mode	Bright, easy-to-see laser, even in direct sunlight
Advanced Data Formatting and Parameter Programming	Easy programming and powerful data manipulation
Flash memory	Easy software upgrades in the field

Making it easy for first-time users, smart raster automatically detects a 2-D bar code and scans it vertically, eliminating the need for manual rastering. This feature further increases your productivity by scanning only the symbol, and none of the blank area, text or other symbols around it.

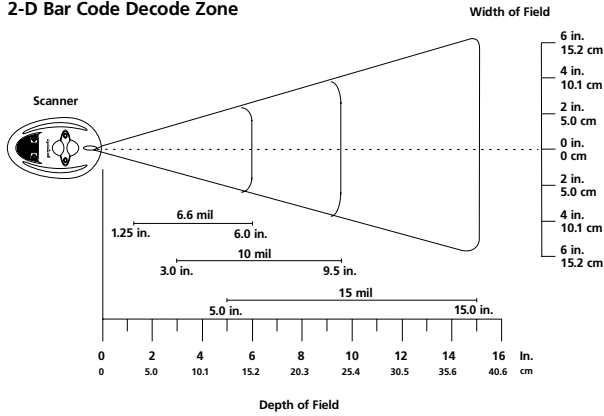
Easy System Integration

Enabling effortless connectivity to hosts, the P300PRO has a direct-connect RS-232 capability and Symbol's Synapse "smart" cable connectivity to all popular host terminals including those using USB ports. Synapse "smart" cables eliminate the need for separate scanner-to-host interface controllers. In addition, the P300PRO has built-in Advanced Data Formatting (ADF), giving you the ability to modify the bar code data string before sending it to your host. This feature frees your application from the burdens of data formatting.

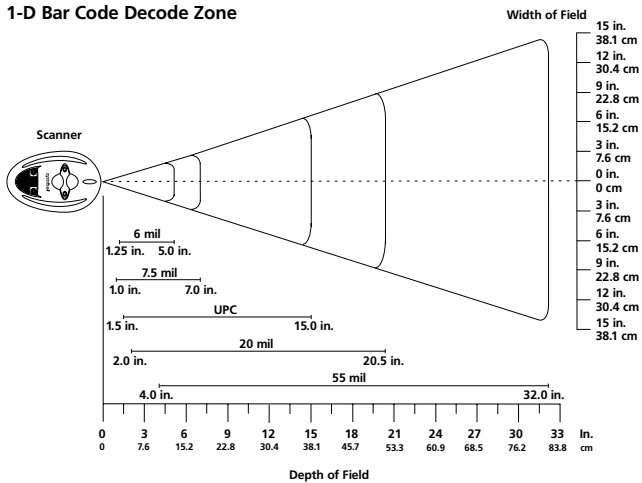
To find out how your company's workforce can be more productive using the P300PRO, visit us at www.symbol.com

P300PRO Specification Highlights

2-D Bar Code Decode Zone



1-D Bar Code Decode Zone



EN410 CE



Physical Characteristics

Dimensions:	6.8 in. H x 5.9 in. L x 2.9 in. D/ 173 mm H x 150 mm L x 74 mm D
Weight:	11 oz./312 gm (without cable)
Power Requirements:	4.75 to 5.5 V Standby Current less than 1 mA Average Current: 250 mA
Memory:	64 KB SRAM/512 KB Flash

Performance Characteristics

Interface Type:	Integrated RS-232 with additional host interfaces supported by Synapse Smart cables (Keyboard wedge, USB, OCIA, Dual RS-232, etc.)
Scan Element Type:	Raster scanning
Light Source:	650 nm laser diode/1.2 mW max
Scan Rate (x):	560 scans per second
Frame Rate (y):	25 frames per second
Optical Resolution:	Minimum X-dimension: 1-D = 6.0 mil (0.15 mm), 2-D = 6.6 mil (0.17 mm); Minimum Y-dimension= 3X
Minimum Reflectance Difference:	25% (1-D symbologies); 35% (PDF417) measured at 650 nm
Program Loading:	Parameters set by bar code menus; Flash memory for software upgrades
Decode Capabilities:	PDF417, micro-PDF417, UPC-A, UPC-E, EAN 8, EAN 13, Code 39, Tri-Optic Code 39, Code 93, D2of5, Bookland EAN, UPC Coupon Code, Code 39 Full ASCII, Code 128, I2of5, Codabar, UCC/EAN 128 with full auto-discrimination between all symbologies, MSI Plessey, Code 11

User Environment

Operating Temperature:	-22° to 122° F/-30° to 50° C
Storage Temperature:	-40° to 158° F/-40° to 70° C
Shock:	Withstands multiple 6 ft./1.8 m drops to concrete over entire temperature range
Environmental Sealing:	IP54 (Industry standard for dust and water sealing)
Humidity:	5% to 95% (noncondensing)
Ambient Light Immunity:	Sunlight: 8,000 ft.-candles, 86,111 lux; Incandescent, Fluorescent, Sodium Vapor, and Mercury Light: 450 ft.-candles, 4,845 lux. Immune to direct exposure from normal office and factory level lighting

Regulatory

Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B, IECES-003 Class B, European Union EMC Directive

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