P300IMG

Industrial Bar Code Scanner with Image Capture

symbol®

Rugged Imager with Multiple Capabilities

Symbol introduces the P300IMG rugged hand-held imager for reading all major bar code symbologies with the added capability of image capture. Powered by Symbol's SE 4200 scan engine and an award-winning ergonomic design, this industrial hand-held imager is perfect for applications requiring not only 1-D and 2-D omni-directional scanning but also the ability to capture images and signatures.

Designed for Extreme Environments (XE)

The P300IMG meets the most stringent industrial standards, earning the Symbol XE class label. It is sealed to IP54 specifications for protection 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, impressive bar code reading and fast image transfer capabilities make the P300IMG an ideal choice for warehouses, distribution centers, and manufacturing floors.

Innovative Design Features

As innovative as it is rugged, the P300IMG 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 P300IMG 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. Leveraging the award-winning Phaser "handle-forward" design makes the scanner extremely comfortable to hold and reduces fatigue when scanning throughout a full shift in scan-intensive applications.

PDF417, DataMatrix, MaxiCode and Postal Code

Whether your requirement is to read DataMatrix for small item identification, MaxiCode for parcel sortation, postal codes for mail-handling, omni-directional linear bar codes or PDF417 across a variety of applications, the P300IMG provides unmatched performance. The P300IMG-HD, high density imager, can read matrix codes as small as 5 mil DataMatrix, while maintaining great working ranges on all other symbologies.

Image Capture and Video Applications

For image capture applications, the P300IMG enables the creation of an electronic image database by delivering clear VGA

Features	Benefits
XE-class durability	Withstands multiple 6-ft./1.8 m drops to concrete over entire temperature range
Sealed to IP54 standards	Protected from windblown dust and rain
Bright, easy-to-see laser aiming pattern	Easy to aim: Point-and-shoot scanning and image capture
Very fast image transfer over a standard serial connection	Full black and white VGA resolution image transferred to host in approximately 5 seconds
User selectable file formats	Industry standard file formats: JPEG, TIFF and BMP
Flash Memory	Easy software upgrade in the field

resolution images while providing the user total control over image attributes such as compression quality, transfer time and file size.

Understanding the need for instantaneous image transfers, the P300IMG's "thumb nail" image can be transmitted to the host in as little as half of a second over your PC's standard COM port. Leveraging its extremely fast image transfer capabilities, the P300IMG can also rapidly transmit sequentially captured images, providing a basic video output for host display.

Intuitive Operation and Use

To ensure you capture the best image on the first try, the P300IMG provides more than one aiming option. A bright laser generated pattern clearly outlines the imager's field of view, providing straightforward point-and-shoot scanning and image capture. And introducing an industry first, a "video viewfinder" that displays live images of your target on your host, letting you decide if you have the picture you want, before you pull the trigger.

To find out how your company's workforce can be more productive using the P300IMG, visit us at **www.symbol.com**

P300IMG Specification Highlights

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:	11.7 oz./332 gm (without cable)
Power Requirements:	+4.75 to 5.25V Standby Current: 1 mA Average Current: 450 mA

Performance Characteristics

Interfaces:	Integrated RS-232 with additional host interfaces supported by Synapse Smart Cables (Keyboard wedge, OCIA, Dual RS-232, etc.)
Field of View:	32° horizontal / 24° vertical
Focal Point:	Standard: 6.5 in./16.5 cm from nose of scanner High Density: 2.5 in./6.4 cm from nose of scanner
Sensor:	Progressive Scan CCD
Optical Resolution:	640 x 480 pixels x 256 shades of gray
Pitch:	+/- 60° (from front to back)
Skew:	+/- 50° from plane parallel to symbol (side-to-side)
Rotational Tolerance:	+/- 180°
Print Contrast Resolution:	25% (1-D symbologies) or 35% (PDF417) absolute dark/light reflectance differential
Aiming Pattern:	Visible laser diode at 650 nm
Decode Capability:	**1-D Symbology:** UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 93, UCC/EAN, ISBT 128, Code 128, Codabar, I2of5, D2of5, Bookland EAN, UPC Coupon Code, MSI Plessey **2-D Symbology:** PDF417, MaxiCode, DataMatrix (ECC 200) **Postal Codes:** U.S., Canada, UK, Japan, Australian, Holland
Imaging Options (User Selectable):	**File Formats:** JPEG, TIFF, BMP **Image Resolution:** Full (640x480 pixels), 1/2 (320x240), 1/3 (214x160) and 1/4 (Thumb Nail 160x120) **Grayscale Level:** 256, 16, 2 shades of gray

User Environment

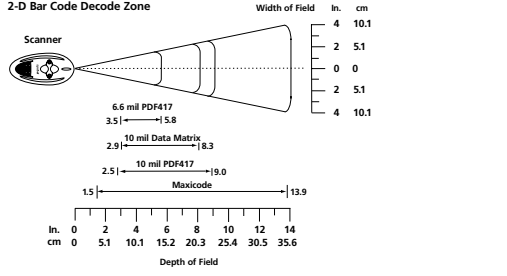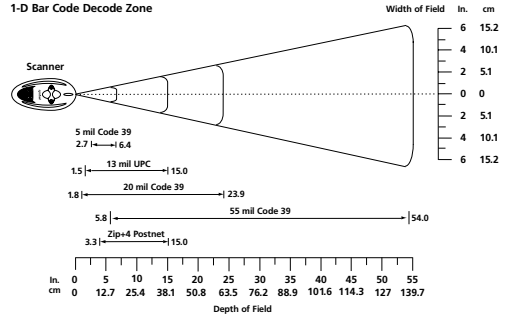|	
Operating Temperature:	-22° to -122° F/-30° to 50°C
Storage Temperature:	-40° to 158° F/-40° to 70°C
Shock:	Withstands multiple 6 ft./1.8 m drops to concrete over entire temp range
Environmental Sealing:	IP54 (Industry standard for dust & water sealing)
Humidity:	5% to 95% (non-condensing)
Ambient Light Immunity:	Sunlight: Up to 9,000 ft.-candles/96,890 LUX

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, ICES-003 Class B, European Union EMC Directive

Ⓒ N410 CE

CAUTION
LASER LIGHT–
DO NOT STARE INTO BEAM
630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

STANDARD

1-D Bar Code Decode Zone

2-D Bar Code Decode Zone

HIGH DENSITY

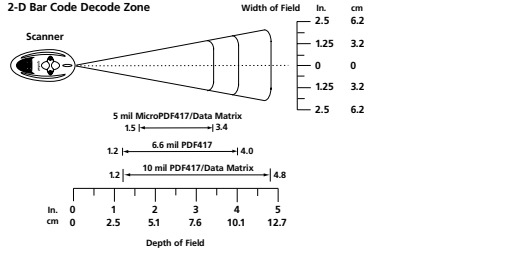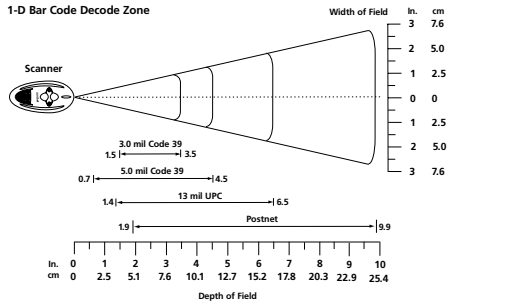1-D Bar Code Decode Zone

2-D Bar Code Decode Zone

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