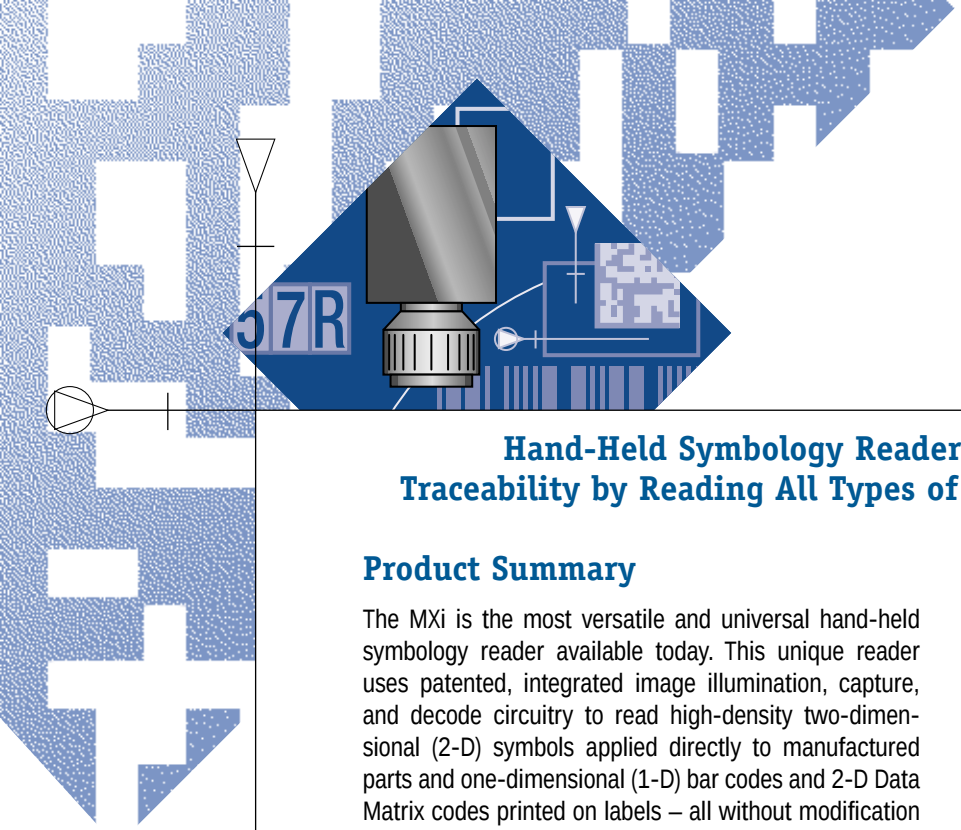

MXi

Hand-Held Symbology Reader Provides Cradle-to-Grave, Unit-Level Traceability by Reading All Types of Codes Under All Types of Conditions

Product Summary

The MXi is the most versatile and universal hand-held symbology reader available today. This unique reader uses patented, integrated image illumination, capture, and decode circuitry to read high-density two-dimensional (2-D) symbols applied directly to manufactured parts and one-dimensional (1-D) bar codes and 2-D Data Matrix codes printed on labels – all without modification or adjustment.

The MXi reader's adaptive optics provide both high resolution and a large field-of-view for more consistent, reliable decoding of high- and low-contrast marks. State-of-the-art video imaging technology and software allow the MXi to auto-discriminate between the major 1-D bar codes and 2-D codes, while providing cradle-to-grave unit-level traceability. Even parts with marks that are damaged or on challenging surfaces can now be identified during the manufacturing process and throughout the lifetime of the product.

The ergonomic design of the MXi allows it to be held comfortably in several positions for both close range and distance reading without any adjustment to the unit.

Features/Benefits

- Quick unit set-up
- Simple and fast programmability
- Reads 1-D bar codes and 2-D codes, high- and low-contrast
- Reads Data Matrix Direct Part Marks (DPMs) created with chemical etch, laser etch, dot peening, ink-jet and other techniques on a variety of surfaces
- Large depth of field – single unit reads at close range (1.6" or 4 cm) and at far range (up to 16" or 40.64 cm) without adjustment
- Easy and fast symbol decoding regardless of orientation
- Reads multiple symbols in the same field of view
- Advanced image processing algorithms and error correction
- Capture feature for imaging signatures, shipping manifest, employee ID badges, and other pertinent items
- Optional cradle available to provide fixed-position reading solution for 1-D bar codes and 2-D codes on any surface at variable distances
- Optional battery pack permits un-tethered reading capability
- Reads and stores up to 64,000 characters of data, transferable to a PC or PDA
- Flash memory technology allows on-site application updates/upgrades

Applications

- Reads DPMs at close and far range without any adjustments
- Consistent and accurate reading of DPMs in any manufacturing environment, particularly high-gloss and high-textured surfaces like those found on jet and automobile engines
- Diverse applications can be employed as a fixed-position reader, a hand-held reader, and an un-tethered, hand-held reader without modification

Physical Characteristics

Dimensions:	8" H x 3.5" W x 3.5" D (20.3 cm H x 9 cm W x 9 cm D)
Power Requirements:	5 V, 1 A, 5 V nominal at 1 Amp

Performance Characteristics

Interfaces:	RS-232C, baud rates up to 115.2 Kbps
Field of View:	1-D: 1" to 6" (2.54 cm to 15.4 cm) 2-D: 1" to 4" (2.54 cm to 10.16 cm)
Depth of Field:	1-D: 1.6" to 16" for .005" to .015" features 4 cm to 40.64 cm for .13 mm to .38 mm features 2-D: 1.6" to 11" for .005" to .015" features 4 cm to 27.94 cm for .13 mm to .38 mm features
Minimum Element Size:	1-D: .005” (.13 mm) 2-D: .005” (.13 mm)
Optical Resolution:	640 x 480 pixels
Minimum Contrast Resolution:	1-D: 20% 2-D: 20%
Optical Parameters:	Pitch & Skew: +/- 35° Rotation: 360° Ambient Light: Full dark to full sunlight 10,000 ft-cd
Programming:	Flash memory for software upgrades Optional PC-based Graphical User Interface (GUI)
Decode Capability:	1-D: Code 39, Code 93, I2of5, Code 128, UPC/EAN, Postnet, BC412, Codabar 2-D: Data Matrix, PDF417

User Environment

Shock:	Drop – 4ft to concrete (1.2 m)

Regulatory

Electrical Safety:	CE Compliant
Laser Safety:	CDRH Class II
EMI/RFI:	FCC Part 15 Class B

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Specifications subject to change without notice.