

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

Built for use in manufacturing and industrial environments, the MXi is a ground-breaking hand-held symbology reader that reads high-density two-dimensional (2-D) symbols applied directly to manufactured parts, plus one-dimensional (1-D) bar codes and 2-D codes printed on labels—all without any modification or adjustment to the unit.

Direct part marking using the Data Matrix symbol allows organizations to benefit from unit level traceability through permanent marking of individual parts. It ensures that each part is identified throughout the manufacturing process and during the lifetime of the product.

Features/Benefits

- Reads direct part marks created with chem etch, laser etch, dot peening, ink-jet, and other techniques on a variety of surfaces
- Reliable unit traceability—unavailable until now—in aerospace, automotive, semiconductor, electronics, defense, pharmaceutical and other industries
- Ensures traceability of marks that are damaged or on challenging surfaces
- Large depth of field—single unit reads at close range and at far range without adjustment
- Easy and fast symbol decoding
- Versatility—reads 1-D and 2-D codes, high and low contrast marks
- Ergonomic design
- Ease of use, minimal operator fatigue
- Advanced image processing algorithms
- Quick unit set-up for specific application requirements



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Applications

The MXi hand-held symbology reader is ergonomically designed to be comfortably held in several positions for close-range and distance reading. The MXi has application in every manufacturing environment. It enables process and quality control, security, loss prevention, and tracking and tracing of parts in situations where unit level identification was never previously attainable.

With its revolutionary optics, lighting and image processing technology, the MXi reads Data Matrix symbols marked with such diverse techniques as laser etch, chemical etch, dot peening and ink-jet printing applied to a variety of surfaces, ranging from PCBs to aluminum, steel, glass and plastics.

Data Matrix has been adopted as the standard in direct part marking by numerous trade organizations, including the Electronic Industries Association (EIA), Automotive Industry Action Group (AIAG), Semiconductor Equipment and Materials International (SEMI), Air Transportation Association (ATA Spec 2000), American National Standards Institute (ANSI), International Standards Organization (ISO), and Automatic Identification Manufacturers (AIM USA).



Dot peen direct part marked Data Matrix code on jet engine.

Specifications

Symbologies:

2-D Data Matrix, PDF-417

1-D Code 128, Code 93, Code 12of5, UPC, Code 39

Performance:

Minimum X-Dimension for 1-D and 2-D 5 mil

Operating range 1.6" to 16" for 5 to 35 mil features

Minimum contrast 20%

Power requirements:

5V, 1A, 5V nominal @ 1 Amp

Ambient light:

Full dark to full sunlight 10,000 ft-cd

Interface:

RS232C Up to 115.2 K Baud

Programming:

Flash memory for software upgrades

Optional PC-based GUI

Environmental:

Drop 4ft to concrete

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