

# DMx Verifier+™

Data Matrix™ Symbol Verification System  
Verifies Data Matrix Symbols on Any Surface

## Product Summary

RVSI Acuity CiMatrix is the world's leading authority on Data Matrix™ symbology, readers, and applications. The DMx Verifier+™ is the first Data Matrix verification system capable of providing symbol quality data that conforms to the ANSI standard for Data Matrix symbology. The DMx Verifier+ is an advanced imaging system that verifies printed, etched, peened, or ink jet marked Data Matrix symbols on paper, metal, plastic, and any other material. The DMx Verifier+ is a worthy addition to CiMatrix's product line of high performance hand-held and fixed-location Data Matrix readers including the MXi Hand-held Symbology Reader. The MXi reads high density two dimensional (2-D) symbols applied directly to manufactured parts, plus 1-D and 2-D codes printed on labels.



## System Components:

### Standard:

- Single slot PCI framegrabber (1300)
- Data Matrix Verification Software

### Optional:

- High resolution camera, stand, lens and interchangeable light source

## Features/Benefits

- Provides symbol quality measurements in compliance with the ANSI standard for Data Matrix symbology and beyond.
- Graphical displays of measured parameters.
- Provides summary and detailed analysis reports, both on-screen and hard copy.
- Flexible, complete, and easy to use: optional high-resolution camera and lens, stand, decoder/ analyzer, printer, monitor, and specialized light source — combined to provide single, push-button operation.
- Interchangeable RVSI NER light sources and lenses available to meet all application requirements.
- Verifies Data Matrix symbols; provides analysis of overall symbol grade, symbol contrast, print growth, axial non-uniformity, unused error correction, reports element resolution used for analysis, cell placement errors, cell size variations, and overall matching.

# DMx Verifier+™

## Data Matrix Symbol Verification System

### Applications

The DMx Verifier+™ is a sophisticated yet easy-to-use verification system that enables the development of quality control/assurance programs to maintain readability of Data Matrix symbols in a wide range of marking and reading applications.

#### Typical applications include:

- Pharmaceutical label version verification (FDA)
- Small part identification and serialization
- Harsh environment production tracking
- Fraud prevention/permanent item identification
- Low-contrast marking/reading
- Binary data representation
- Personnel identification
- Biometric information

### Host-PC Requirements

Pentium class CPU (166 MHz or higher), one open PCI slot, Microsoft Windows® NT operating system.

### Interface to MXi Hand-held Symbology Reader:

- Serial: RS232, RS422
- Format: ASCII 7 or 8 data bits, 1 or 2 stop bits, parity odd/even/none
- Baud Rate: 9,600 to 115,200 bps Kbps

### Warranty:

**One year limited parts and labor**

### Verification Parameters:

#### Standard Parameters

- Overall symbol grade
- Symbol contrast
- Print growth
- Axial non-uniformity
- Unused error correction
- Cell placement error
- Cell size error
- Overall matching

#### Additional Parameters

- Encoded data
- Error correction level
- Data Matrix dimension
- Data Matrix style
- Element Resolution

### Optical Parameters:

- Camera Lens: 50 mm lens, with 5, 10 and 22 mm extensions to adjust magnification.
- CCD Camera Resolution: 640 x 480 pixels (nominal).

### Environment:

- Operating Temperature: 32° to 104° F (0° to 40° C)
- Storage Temperature: -4° to 149° F (-20° to 65° C)
- Humidity: up to 95% non-condensing



MXi Hand-held Symbology Reader

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