



# M200

Data Matrix Reader Software

## Why Data Matrix Code?



The Data Matrix Code is a two-dimensional code, which is capable of encoding hundreds of times more data per unit-area than traditional bar codes. The increasing demand for including more and more information in automatic ID messages seems to be unlimited. The industry needs to encode and control large amounts of data, such as expiration dates, lot or batch numbers, serial numbers, product codes, tracking codes and so on. In the electronics, automotive, and pharmaceutical industries, Data Matrix Code quickly becomes the code of choice because of its high data density, flexibility, high readability and reliability. Data redundancy and Reed-Solomon error correction technique assure reliable code reconstruction that has up to 30% of their data cells damaged.

## Features of the VC M200 Data Matrix Code Reader SW

The extremely robust M200 DMC Reader from Vision Components works with a wide variety of flat and curved surfaces.

Omni directional reading detects code size and scale factor automatically. It is nearly independent of brightness and contrast. It works with black on white or white on black codes.

The software runs on intelligent CCD cameras from Vision Components.

**Code Type and Size** ECC 200 square codes up to 26x26 modules with DMC Reader Version 3.2 for VCXX, VCMXX and VCSBCXX cameras.  
The new DMC Reader Version 4.1 for VC20XX cameras can now also decode rectangular DMC's and square codes up to 144x144 modules!  
Both DMC Reader feature automatic size detection and detect Black on white or white on black codes.

**Speed** Up to 54 Reads per second  
Shutter time 30us – 20sec

**Interface** PLC I/O, trigger or strobe control, RS232 or Ethernet for data transfer

**OEMs** OEM cameras and Data Matrix source code available.

### Data Content Square DMC

Dimensions (Rows/Columns)	Numeric	Alpha-numeric
10 x 10	6	3
18 x 18	36	25
26 x 26	88	64
48x48	348	259
64x64	560	418
80x80	912	682
120x120	2100	1573
144x144	3116	2335

### Data Content rectangular DMC

Dimensions (Rows/Columns)	Numeric	Alpha-numeric
8 x 18	6	3
8 x 32	36	25
12 x 36	88	64
16x48	348	259

Working demo versions of the M200 DMC Reader are available for download from the customer download area on our website.



### Vision Components GmbH

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