MATRIX-2XX5 MP



1D & 2D, Stacked, Postal Code 1.3 MP Area Reader

Wide FoV (covers an A5 sheet)









Unattended Scanning Systems

General Description

Matrix-2XX5 MP is an area CMOS reader for industrial applications requiring a wide field of view (FoV) while using 1D, 2D, stacked and postal codes. For example, the wide FoV Matrix models based on a 1.3 Megapixel sensor are suitable for CD/DVD identification using a single reader. Multicode simultaneous reading is also possible, such as in biomedical applications (96 vial rack reading in a single image acquisition). The fully integrated reader combines a LED lighting system, image capturing, decoding and communication interfaces in a single compact product. Matrix-2XX5 MP offers full programmability via Ethernet, an Autolearning function for quick installation and set-up without a PC, and DPM (Direct Part Marking) decoding capabilities.

In addition to the VisiSet™ software configuration, Matrix-2XX5 MP Ethernet connectivity offers several communication channels, such as TCP/IP socket for data and image transfer, HTTP server, FTP and mail client.

Matrix-2XX5 MP AIM standards diagnostic software tools enable real time monitoring of code printing quality, position and orientation, exposure quality and decoding time on all decoded symbologies.

Matrix-2XX5 MP state-of-the-art decoding libraries are extremely effective on damaged and low quality bar code applications. The reader flexibility allows a smooth transition from standard bar code reading to 2D code symbologies.

Matrix-2XX5 MP is ready for use in various applications, offering many optical solutions to guarantee high accuracy in identifying codes with different resolutions at various distances with the best reading performance in its class. Customized solutions for specific applications are also available upon request.

Features

- > Up to 100 codes in a single frame
- > Up to 16 full frames/s (960 frames/min)
- > 1D & 2D, stacked, postal code reading
- > Autolearning function
- > Code quality control (AIM)
- > Ethernet configuration/data collection
- Image transfer capability via Ethernet
- > Integrated LED lighting system

Applications

- > 96 vial rack reading
- > CD/DVD identification
- > WIP control / product traceability
- > Document and mail processing
- > PCB production line tracking
- > Direct Part Marking (DPM) applications
- > Semiconductor production line tracking
- Chemical and biomedical analysis machines
- > Small objects/pharmaceutical packaging

MATRIX-2XX5 MP

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Specifications

ELECTRICAL CHARACTERISTICS

POWER SUPPLY 10 to 30 Vdc POWER CONSUMPTION 8 W max.; 5 W typ.

MECHANICAL CHARACTERISTICS

DIMENSIONS 121 x 73 x 57 mm (4.76 x 2.87 x 2.24 in)

WEIGHT 380 g (13.40 oz) CASE MATERIAL Magnesium alloy

PERFORMANCE

OPTICAL FEATURES SXGA format CMOS sensor / LED array lighting systems FRAME RATE Up to 16 frames/s (SXGA); up to 64 frames/sec (VGA)

READING ANGLES Max. Pitch: ± 35°; Tilt: 360°

READABLE SYMBOLOGIES DataMatrix, QR Code, PDF417, I 2/5, Code 128, Code 39, EAN/UPC,

postal codes and many more

COMMUNICATION INTERFACE RS232 + optocoupled RS232/RS422/RS485 up to 115.2 Kbit/s

Ethernet IEEE 802.3 10 Base T and IEEE 802.3U 100 BaseTx compliant Pass Through, Master/Slave, Multiplexer, ETH point to point and network

CONNECTIVITY modes DIGITAL INPUTS Two SW programmable, optocoupled and polarity insensitive

DIGITAL OUTPUTS Three SW programmable optocoupled

PROGRAMMING METHOD Windows[™] based configuration software (VisiSet[™]) via serial or Ethernet link

DIAGNOSTIC SW TOOLS AIM standards diagnostic tools on all symbologies decoded Beeper, Keypad Button, LEDs (PWR, TRIG, READ, COM, POS, CAL) USER INTERFACE

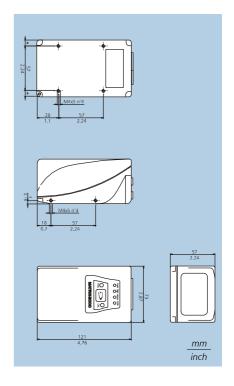
ENVIRONMENT

OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F) STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F) HUMIDITY 90% non condensing

VIBRATION RESISTANCE IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis SHOCK RESISTANCE IEC 68-2-27 test EA 30 G; 11ms; 3 shocks on each axis

PROTECTION CLASS IP64 (20X5 models)

Dimensions

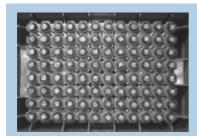


Reading Characteristics

MODEL / DESCRIPTION ¹	FOCUS DISTANCE mm (in)	FIELD OF VIEW @ focus distance mm x mm (in x in)	PPI @ focus distance	TYP. LINEAR & STACKED CODE RESOLUTION mm (mils)	TYP. 2D CODE RESOLUTION mm (mils)	READING D MIN. mm (in)	MAX. mm (in)
MATRIX-2X25 HD MP	135 (5.31)	65×52 (2.56×2.05)	500	0.10 (4)	0.19 (7.5)	120(4.72)	150(5.90)
MATRIX-2X45 LD MP	100 (3.94)	120×96 (4.72×3.78)	270	0.20 (8)	0.38 (15)	80(3.15)	120(4.72)
MATRIX-2X55 MR MP	180 (7.09)	215×172 (8.46×6.77)	150	0.30 (12)	0.60 (24)	140(5.51)	240(9.44)

^{1 = 20}X5 serial models; 21X5 Ethernet models.

Applications



96 vial rack reading



CD/DVD identification



Multicode A5 sheet reading



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