DATALOGIC

DATALOGIC AUTOMATION

MATRIX 210™

Matrix 210™ is the new Datalogic 2D reader offering extreme reading performance and integrated Ethernet in a ultra-compact housing.

Thanks to the WVGA image sensor, capturing up to 60 frames per second and to the powerful internal illuminator, Matrix 210[™] offers extreme dynamic reading capability.

The unrivalled decoding libraries running on the new high speed hardware platform deliver superior reading robustness and impressive decoding rates, supporting high system throughput and so improving the overall production efficency.

The on-board Ethernet makes effective the transfer of both reading data and captured images, that can be easily and quickly uploaded on external PCs or servers, simply for storage or also for offline process analysis.

Compactness and straight - 90° optical options allow a perfect contact reading capability and a simple mechanical integration into narrow spaces. Installation and maintenance are extremely easy thanks to the X-PRESS™ Interface with five LEDs bar graph and with the multi-function key for immediate access to relevant functions such as Aiming, Setup, Automatic Learning, Test Mode

The Green Spot - projected onto the scanned object - provides an easy and real-time feedback of the reading status without any additional supervisory softwares

HIGHLIGHTS

- · Integrated Ethernet interface
- · Ultra compact dimensions
- · Outstanding decoding capability on 1D, 2D, Stacked and Postal symbologies
- · Direct and 90° window models for smart mounting
- · High performance on dynamic reading applications
- X-PRESS[™] for easy and intuitive setup
- · Optical aiming system
- USB connectivity
- ID-NET[™] embedded high speed connectivity
- · Region Of Interest Windowing for higher frame rate
- 10 to 30 VDC Power Supply





APPLICATIONS

- Electronic
- PCB Board Tracking
- · Electronic Products Tracking
- Pharmaceutical & Chemical
- · Pharmaceutical manufacturing and packaging
- · Supply chain traceability • OEM
- Chemical & Biomedical Analysis Machines
- Access control systems
- · Self Service Systems (ATM, Kiosks)
- · Print & Apply systems
- Document Handling





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| TECHNICAL DATA | | | | | | |
|---------------------------|---|---|--|--|--|--|
| | MATRIX 210 21x-1xx | MATRIX 210 21x-0xx | | | | |
| DIMENSIONS | 50 x 25 x 45 mm (1.97 x 0.98 x 1.77 in) | 54 x 32 x 45 mm (2.12 x 1.26 x 1.77 in) | | | | |
| WEIGHT | 60g. (2.1 oz.) without cable | | | | | |
| CASE MATERIAL | Aluminum alloy | | | | | |
| OPERATING TEMPERATURE | 0 to 50 °C (32 to 122 °F) | | | | | |
| STORAGE TEMPERATURE | -20 to 70 °C (-4 to 158 °F) | | | | | |
| HUMIDITY | 90% non condensing | | | | | |
| PROTECTION CLASS | IP65 | | | | | |
| OPTICAL FEATURES | WVGA (752 x 480) CMOS Sensor with Global Shutter | | | | | |
| FRAME RATE | 60 frame/s | | | | | |
| READING WINDOW | Direct or 90° | | | | | |
| READING ANGLES | Max. Pitch: ± 35°; Tilt: 0-360° | | | | | |
| READABLE SYMBOLOGIES | 1D and Stacked: IL 2/5, Code 128, Code 39, EAN/UPC, PDF417, Micro PDF417, Pharmacode, | | | | | |
| | GS1 DATABAR (RSS) family, and many more 2D: Data Matrix, QR Code, Maxicode, Aztec, Microglyph | | | | | |
| | Postal: Royal Mail, Japan Post, Planet, Postnet and many more | | | | | |
| COMMUNICATION INTERFACES: | RS232 + RS232/RS422/RS485 up to 115.2 Kbit/s | | | | | |
| | ID-NET™ port up to 1 Mbps, USB 2.0 up to 921.6 Kbit/s | | | | | |
| CONNECTIVITY MODES | Pass Through, Master/Slave, Multiplexer, USB Point To Point | | | | | |
| DIGITAL INPUTS | | Two SW programmable, optocoupled and polarity insensitive | | | | |
| DIGITAL OUTPUTS | Two SW programmable optocoupled | | | | | |
| DEVICE PROGRAMMING | X-PRESS™ Human Machine Interface, Windows™ based SW (VisiSet™) via serial or USB link | | | | | |
| | Serial Host Mode Programming sequences | | | | | |
| USER INTERFACE | X-PRESS™ Human Machine Interface, Beeper, Programmable Push Button, | | | | | |
| | LEDs (Status, Com, Trigger, Good, Ready, Power On, Good read Spot) | | | | | |
| CODE QUALITY VERIFICATION | ISO/IEC 16022 (Data Matrix), ISO/IEC 18004 (QR Code) | | | | | |
| | ISO/IEC 15415 (Print quality test specifications for 2D codes) | | | | | |
| | ISO/IEC 15416 (Print quality test specifications for linear codes) | | | | | |
| | AS9132A (Data Matrix Quality Requirements for Parts Marking) | | | | | |
| | AIM DPM (Global Direct Part Mark Quality Guideline) | | | | | |
| | Matrix 210 21x-x0x | Matrix 210 21x-x2x | | | | |
| POWER SUPPLY: | 10 to 30 VDC | 5 VDC | | | | |
| POWER CONSUMPTION: | 3.6 W max; 3.0 W typ. | 2.5 W max; 2.0 W typ. | | | | |

| MODELS | 5 | | OPTICAL MODELS | | | |
|--------|-----------|-------------------------------------|----------------|--|--|--|
| | P/N | Description | P/N | Description | | |
| Serial | 937501026 | MATRIX 210 211-100 WVGA-NEAR-25P-ST | 937501038 | MATRIX 210 211-000 WVGA-NEAR-90-25P-ST | | |
| | 937501027 | MATRIX 210 212-100 WVGA-MED-25P-ST | 937501039 | MATRIX 210 212-000 WVGA-MED-90-25P-ST | | |
| | 937501028 | MATRIX 210 213-100 WVGA-FAR-25P-ST | 937501040 | MATRIX 210 213-000 WVGA-FAR-90-25P-ST | | |
| | 937501029 | MATRIX 210 214-100 WVGA-UHD-25P-ST | 937501041 | MATRIX 210 214-000 WVGA-UHD-90-25P-ST | | |
| Serial | 937501030 | MATRIX 210 211-110 WVGA-NEAR-ETH-ST | 937501042 | MATRIX 210 211-010 WVGA-NEAR-90-ETH-ST | | |
| | 937501031 | MATRIX 210 212-110 WVGA-MED-ETH-ST | 937501043 | MATRIX 210 212-010 WVGA-MED-90-ETH-ST | | |
| | 937501032 | MATRIX 210 213-110 WVGA-FAR-ETH-ST | 937501044 | MATRIX 210 213-010 WVGA-FAR-90-ETH-ST | | |
| | 937501033 | MATRIX 210 214-110 WVGA-UHD-ETH-ST | 937501045 | MATRIX 210 214-010 WVGA-UHD-90-ETH-ST | | |
| USB | 937501034 | MATRIX 210 211-120 WVGA-NEAR-USB-ST | 937501046 | MATRIX 210 211-020 WVGA-NEAR-90-USB-ST | | |
| | 937501035 | MATRIX 210 212-120 WVGA-MED-USB-ST | 937501047 | MATRIX 210 212-020 WVGA-MED-90-USB-ST | | |
| | 937501036 | MATRIX 210 213-120 WVGA-FAR-USB-ST | 937501048 | MATRIX 210 213-020 WVGA-FAR-90-USB-ST | | |
| | 937501037 | MATRIX 210 214-120 WVGA-UHD-USB-ST | 937501049 | MATRIX 210 214-020 WVGA-UHD-90-USB-ST | | |

Note: Matrix 210[™] is also available in ESD and ESD YAG cut filter versions. For the complete model range please visit our website www.automation.datalogic.com/matrix210

| READING CHAI | RACTERI | STICS | | | | | | |
|------------------------------|-------------------|-----------------------------------|----------------------------|---|-----------------------|---------------------|-----------|------------|
| Models | Focus Distance | Field of View @ Focus Distance | PPI @ Focus Distance | Typ. 1D And Stacked Code Resolution | 2D Code Resolution | Reading Distance | | |
| | mm (in) | mm (in) | | mm (mils) | mm (mils) | mm (in) | Min | Max |
| MATRIX 210 214-xxx UHD | 30 (1.38) | 16.5 x 10.5 (0.65 x 0.41) | 1150 | 0.063 (2.5) | Тур. | 0.076 (3) | 28 (1.10) | 32 (1.26) |
| | | | | | Max. | 0.13 (5) | 23 (0.91) | 38 (1.50) |
| MATRIX 210 211-xxx NEAR | 45 (1.77) | 35 x 22 (1.38 x 0.87) | 545 | 0.10 (4) | Тур. | 0.13 (5) | 42 (1.65) | 53 (2.08) |
| | | | | | Max. | 0.19 (7.5) | 36 (1.42) | 61 (2.40) |
| MATRIX 210 212-xxx MEDIUM | 65 (2.56) | 50 x 32 (1.97 x 1.26) | 380 | 0.15 (6) | Тур. | 0.19 (7.5) | 54 (2.13) | 90 (3.54) |
| | | | | | Max. | 0.25 (10) | 47 (1.85) | 101 (3.97) |
| MATRIX 210 213-xxx FAR | 105 (4.13) | 80 x 50 (3.15 x 1.97) | 238 | 0.20 (8) | Тур. | 0.25 (10) | 85 (3.35) | 135 (5.31) |
| | | | | | Max. | 0.38 (15) | 70 (2.76) | 192 (7.55) |



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