MATRIX 410[™]

DATALOGIC



MATRIX 410[™] is an industrial compact 2D reader that combines image capturing, decoding and communicating in a single compact and versatile product. MATRIX 410[™] is powered by a new engine, a high speed industrial micro processor, optimized for image processing and

Ethernet connectivity. The result is a superior barcode reading speed and robustness, especially for 2D codes and DPM; the powerful proprietary decoding libraries provide the Matrix **410**[™] with unrivalled performance even on damaged and low quality codes. MATRIX 410[™] strongly excels for throughput in data transfer over the Ethernet; it is capable to transmit over 4 SXGA (1.3 MP) images per second, while capturing and decoding at the normal rate; the high capacitance channel enables real time massive image transfer, even with a full working resolution. The Embedded high speed ID-NET™ communication interface enables an efficient and fast clustering of multiple reader; this offers the best modularity of the building block approach and always the optimal balance between price and

performance. MATRIX 410[™] makes better the remote slave reader configuration, a new function enabling the reader parameter setup over an ID-NET link; the system configuration and maintenance are so easier and efficient than ever.



HIGHLIGHTS

- Ethernet Connectivity
- 1,3 (SXGA) & 2,0 (UXGA) MPixels models
- Adjustable focus through C-Mount lenses
- Outstanding decoding capability on 1D, 2D, Stacked, Postal symbologies
- Excellent Performance on DPM Application
- Region Of Interest Windowing for higher frame rate
- Blue Diamonds™ aiming and focusing system
- X-PRESS[™] for easy and intuitive setup
- Run Time Self Tuning for higher flexibility
- ID-NET[™] embedded high speed connectivity
- Code Quality Verification Capability

APPLICATIONS

- Automotive
- DPM Reading and Verification
- Tires Tracking & Tracing
- Electronics
- Large PCB Board Tracking - Electronics Product Tracking
- Distribution & Retail Industry
 - Presentation Scanner
 - Small Objects Sorting
 - Warehouse application

- Medical & Pharmaceutical
 - Medical Devices Traceability
 - Pharmaceutical Industries
 - Chemical & Biomedical Analysis
- Food & Beverage
 - Work in Progress Traceability
 - Code Quality Control

Automotive



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TECHNICAL DATA

| Dimensions | 123 x 60,5 x |
|-----------------------|--------------|
| Weight | 4 |
| Case material | |
| Operating temperature | |
| Storage temperature | |
| Humidity | |
| Protection class | |
| | |

| PHYSICAL CHARACTERISTICS |
|---|
| 123 x 60,5 x 87 mm (4.84 x 2.38 x 3.42 in) with protective lens cover |
| 482 g (17 oz.) with lens and internal illuminator |
| Aluminum |
| 0° to+50 °C (32 to 122°F) |
| -20 to 70 °C (-4 to 158 °F) |
| 90% non condensing |
| IP67 |
| |

| | PERFORMANCE | | |
|---------------------------|--|---------------------|--|
| Optical features | MATRIX 410 -4xx-xxx | MATRIX 410 -6xx-xxx | |
| | SXGA (1280 x 1024) | UXGA (1600 x 1200) | |
| | CMOS sensor | CCD sensor | |
| Frame rate | 27 frames/s | 15 frames/s | |
| 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, Micro QR, Maxicode, Aztec, Microglyph | | |
| | Postal: Royal Mail, Japan Post, Planet, Postnet and many more | | |
| Communication interface | RS232 + RS232/RS422/RS485 up to 115.2 Kbit/s | | |
| | Ethernet IEEE 802.3 10 Base T and IEEE 802.3U 100 BaseTX compliant | | |
| | ID-NET™ port up to 1 Mbps | | |
| Connectivity modes | Pass Through, Master/Slave, Multiplexer, Ethernet point to point | | |
| Digital inputs | Two SW programmable, optocoupled and polarity insensitive | | |
| Digital outputs | Two SW programmable, optocoupled | | |
| Programming method | X-PRESS™ Human Machine Interface | | |
| | Windows™ based SW (VisiSet™) via serial or Ethernet link | | |
| User interface | X-PRESS™ Human Machine Interface | | |
| | Beeper, Programmable Push Button, LEDs (Status, Com, Trigger, Good, Ready, Power on, Network presence, Good read Spot) | | |
| Code quality verification | AS9132A (Data Matrix Quality Requirements for Parts Marking), | | |
| | ISO/IEC 15415 (Print quality test specifications for 2D codes), | | |
| | ISO/IEC 15416 (Print quality test specifications for linear codes), | | |
| | ISO/IEC 16022 (DataMatrix), ISO/IEC 18004 (QR-Code) | | |
| | AIM DPM (Global Direct Part Mark Quality Guideline) | | |
| | | | |

Power supply Power consumption TRICAL CHARACTERISTIC: 10 to 30 VDC 8 W max; 5W typical

MODELS & ACCESSORIES

| | P/N | DESCRIPTION |
|---------------------------|-----------|---|
| Models | 937401031 | MATRIX 410 400-000 SXGA-BS-CM-SER-STD |
| | 937401032 | MATRIX 410 400-010 SXGA-BS-CM-ETH-STD |
| | 937401033 | MATRIX 410 600-000 UXGA-BS-CM-SER-STD |
| | 937401034 | MATRIX 410 600-010 UXGA-BS-CM-ETH-STD |
| Internal lighting systems | 93A401019 | LT-001 INTERNAL LT RED NARROW ANGLE |
| | 93A401020 | LT-002 INTERNAL LT RED WIDE ANGLE |
| | 93A401021 | LT-003 INTERNAL LT WHITE NARROW ANGLE |
| | 93A401022 | LT-004 INTERNAL LT WHITE WIDE ANGLE |
| | 93A401024 | LT-006 INTERNAL LT RED SUPER NARROW ANGLE |
| | 93A401026 | LT-010 HI POWER LT BLUE SUPERNARROW |
| C-mount lenses | 93ACC1793 | LNS-1006 6MM C-MOUNT LENS |
| | 93ACC1794 | LNS-1109 9MM C-MOUNT LENS |
| | 93ACC1795 | LNS-1112 12,5MM C-MOUNT LENS |
| | 93ACC1796 | LNS-1116 16MM C-MOUNT LENS |
| | 93ACC1797 | LNS-1125 25MM C-MOUNT LENS |
| | 93ACC1798 | LNS-1135 35MM C-MOUNT LENS |
| | 93ACC1799 | LNS-1150 50MM C-MOUNT LENS |
| | | |



Electronics



Logistic



Medical&Pharmaceutical



Tires Tracking & Tracing

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