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



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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

MATRIX 410™

DATALOGIC

TECHNICAL DATA

| | PHYSICAL CHARACTERISTICS | | |
|-----------------------------------|--|---|---|
| DIMENSIONS | 123 x 60,5 x 87 mm (4.84 x 2.38 x 3.42 in) with protective lens cover | | |
| WEIGHT | 482 g (17 oz.) with lens and internal illuminator | | |
| CASE MATERIAL | Aluminum | | |
| 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 | IP67 | | |
| | DEDE | ORMANCE | |
| OPTICAL FEATURES | | | |
| | | 410 -4xx-xxx | MATRIX 410 -6xx-xxx |
| | | 280 x 1024) | UXGA (1600 x 1200) |
| | | S sensor | CCD sensor |
| FRAME RATE | 27 fr | rames/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 | | |
| | X-PRESS™ Human Machine Interface | | |
| PROGRAMMING METHOD | Windows™ based SW (VisiSet™) via serial or Ethernet link | | |
| | X-PRESS™ Human Machine Interface | | |
| USER 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 | I DPM (Global Direct P | art Mark Quality Guideline) |
| | | CHARACTERISTICS | |
| POWER SUPPLY | 10 to 30 VDC | | |
| POWER SUPPLY POWER CONSUMPTION | 8 W max; 5W typical | | |
| | | | |
| | MODELS & | ACCESSORIES | |
| | P/N | | Description |
| | 937401031 | MATRIX 410 | +00-000 SXGA-BS-CM-SER-STD |
| | 937401032 | MATRIX 410 4 | +00-010 SXGA-BS-CM-ETH-STD |
| MODELS | 937401033 | MATRIX 410 6 | 500-000 UXGA-BS-CM-SER-STD |
| | 937401034 | | 500-010 UXGA-BS-CM-ETH-STD |
| | 93A401019 | | RNAL LT RED NARROW ANGLE |
| INTERNAL LIGHTING SYSTEMS | 93A401020 | | TERNAL LT RED WIDE ANGLE |
| | | | |
| | 93A401021 | | NAL LT WHITE NARROW ANGLE |
| | 93A401021 93A401022 | | RNAL LT WHITE NARROW ANGLE |
| | 93A401022 | LT-004 INTI | ERNAL LT WHITE WIDE ANGLE |
| | 93A401022 93A401024 | LT-004 INTI LT-006 INTERN/ | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE |
| | 93A401022 93A401024 93A401026 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW |
| | 93A401022 93A401024 93A401026 93ACC1793 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC LNS-10 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW DOG 6MM C-MOUNT LENS |
| | 93A401022 93A401024 93A401026 93ACC1793 93ACC1794 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC LNS-11 LNS-1 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW D06 6MM C-MOUNT LENS 109 9MM C-MOUNT LENS |
| | 93A401022 93A401024 93A401026 93ACC1793 93ACC1794 93ACC1795 | LT-004 INT LT-006 INTERN/ LT-010 HI PC LNS-11 LNS-11 LNS-11 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW DOG 6MM C-MOUNT LENS 109 9MM C-MOUNT LENS 12 12,5MM C-MOUNT LENS |
| C-MOUNT LENSES | 93A401022 93A401024 93A401026 93ACC1793 93ACC1794 93ACC1795 93ACC1796 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC LNS-11 LNS-11 LNS-11 LNS-11 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW DO6 6MM C-MOUNT LENS 109 9MM C-MOUNT LENS 12 12,5MM C-MOUNT LENS 16 16MM C-MOUNT LENS |
| C-MOUNT LENSES | 93A401022 93A401024 93A401026 93ACC1793 93ACC1794 93ACC1795 93ACC1796 93ACC1797 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC LNS-11 LNS-11 LNS-11 LNS-11 LNS-11 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW DO6 6MM C-MOUNT LENS 109 9MM C-MOUNT LENS 12 12,5MM C-MOUNT LENS 16 16MM C-MOUNT LENS 25 25MM C-MOUNT LENS |
| C-MOUNT LENSES | 93A401022 93A401024 93A401026 93ACC1793 93ACC1794 93ACC1795 93ACC1796 | LT-004 INTI LT-006 INTERN/ LT-010 HI PC LNS-11 LNS-11 LNS-11 LNS-11 LNS-11 | ERNAL LT WHITE WIDE ANGLE AL LT RED SUPER NARROW ANGLE DWER LT BLUE SUPERNARROW DO6 6MM C-MOUNT LENS 109 9MM C-MOUNT LENS 12 12,5MM C-MOUNT LENS 16 16MM C-MOUNT LENS |



Electronics



Logistic



Medical&Pharmaceutical



Tires Tracking & Tracing

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