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

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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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