

DATALOGIC AUTOMATION

MATRIX 410™

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
 bigher frame rate
- 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
- ID-NET ™ embedded nign 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
- Chemical & Biomedical Analy
- Food & Beverage
 Work in Drogroup
- Work in Progress Traceability
 Code Quality Control

Automotive



TECHNICAL DATA

POWER SUPPLY

MODELS

POWER CONSUMPTION

INTERNAL LIGHTING SYSTEMS

C-MOUNT LENSES

P/N

937401031

937401032

937401033

937401034 93A401019

93A401020 93A401021

93A401022 93A401024

93A401026

93A401025

93ACC1794

93ACC1798

	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	

	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)		

Description

93ACC1793 LNS-1006 6MM C-MOUNT LENS

93ACC1796 LNS-1116 16MM C-MOUNT LENS 93ACC1797 LNS-1125 25MM C-MOUNT LENS

93ACC1799 LNS-1150 50MM C-MOUNT LENS

LNS-1109 9MM C-MOUNT LENS 93ACC1795 | LNS-1112 12,5MM C-MOUNT LENS

LNS-1135 35MM C-MOUNT LENS



Electronics



Distribution&Retails



Medical&Pharmaceutical



Tires Tracking & Tracing



ELECTRICAL CHARACTERISTICS

10 to 30 VDC

8 W max; 5W typical MODELS & ACCESSORIES

MATRIX 410 400-000 SXGA-BS-CM-SER-STD

MATRIX 410 400-010 SXGA-BS-CM-ETH-STD

MATRIX 410 600-000 UXGA-BS-CM-SER-STD MATRIX 410 600-010 UXGA-BS-CM-ETH-STD

LT-001 INTERNAL LT RED NARROW ANGLE LT-002 INTERNAL LT RED WIDE ANGLE

LT-003 INTERNAL LT WHITE NARROW ANGLE

LT-006 INTERNAL LT RED SUPER NARROW ANGLE LT-010 HI POWER LT BLUE SUPERNARROW

LT-004 INTERNAL LT WHITE WIDE ANGLE

LT-020 ULTRA POWER LT BLUE SUPERNAR.

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