

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

MATRIX 210N™



Datalogic's Matrix 210N™ offers extreme reading performance with integrated serial, USB, Ethernet & PROFINET in an ultra-compact housing.

With a WVGA image sensor able to capturE up to 60 frames per second, and a flexible and powerful illuminator, the Matrix 210N™ offers best-in-class reading performance for direct part-marked bar codes.

Unrivaled decoding libraries running on a high speed hardware platform deliver superior reading performance and decoding rates. With these combined features the Matrix 210N supports high throughput systems which results in improved production efficiency.

Both read data and captured images are transferred using the on-board Ethernet ports. The captured images can be either saved internally or easily and quickly uploaded to external PCs for storage or offline analysis.

Compact dimensions with straight, right angle, or electronic variable focus options provide superb contact reading capabilities and simple mechanical integration into small spaces.

Matrix 210N imager embeds the standard Matrix Series configuration software DL.Code that tremendously improves the ease of setup and is intuitive for the use and maintenance of the reader.

The Green Spot - projected onto the scanned object – provides easy and real-time feedback of the reading status without any additional software or accessories.

HIGHLIGHTS

- Integrated Ethernet, PROFINET, EtherNet/IP, interfaces
- Dynamic focus liquid lens models
- High performance DPM bar code reading
- On-board image saving
- Outstanding decoding capability on DPM and printed 1D & 2D standard codes
- Straight and right angle models for smart mounting
- ID-NET™ reader clustering/networking
- Ultra-fast image acquisition for high speed production lines
- Industrial Protection: ESD-safe, YAG, IP65
- New DL.CODE software that offers a usable interface

APPLICATIONS

Electronic
- PCB board tracking
- Electronic products tracking

Pharmaceutical & Chemical
- Pharmaceutical manufacturing and packaging
- Supply chain traceability

OEM
- Chemical & Biomedical Analysis Machines
- Print & Apply systems
- Document Handling



TECHNICAL DATA

	FIXED FOCUS MODELS		ELECTRONIC FOCUS CONTROL MODEL
Dimensions	Straight optic 50 x 25 x 45 mm (1.97 x 0.98 x 1.77 in)	Right angle optic 54 x 32 x 45 mm (2.13 x 1.26 x 1.77 in)	61 x 25 x 45 mm (2.40 x 0.98 x 1.77 in)
Weight	204 g. (7.2 oz.) with cable		237 g. (8.4 oz.) with cable
Case material	Aluminum, plastic protective window cover		
Operating temperature	0° to 50° C (32 to 122 °F)		0° to + 45 °C (32 to 113°F)
Storage temperature	-20 to 70 °C (-4 to 158 °F)		
Protection class	IP65		
Esd safe	YES, with ESD Safe front cover accessory		
Yag laser protection	YES, with YAG cut filter accessory		
Power supply	Standard: 10 VDC to 30 VDC		
Power consumption	0.4 to 0.15 A, 4.5 W max		
Sensor	Image Resolution 780 x 480 WVGA - CMOS global shutter		
Frame rate	60 frames/s		
Optical focus control	Fixed		Variable, Electronic focus control
Aiming system	Blue Ring LED system		Dual laser pointer (CDRH/IEC Class II)
Readable symbologies	1D Codes: all standard 1 dimensional symbologies 2D Codes: Data Matrix, QR Code, Micro QR, Maxicode, Aztec Postal Codes: Royal Mail, Japan Post, Planet, Postnet and many more		
Embedded communication interfaces	Ethernet 10/100: EtherNet/IP, PROFINET, TCP/IP, UDP, FTP, MODBUS TCP Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Aux RS232		
Reader networking	Datalogic ID-NET™		
Connectivity modes	Master/Slave, Ethernet point to point		
Digital inputs	2 opto-isolated. Polarity insensitive and SW Programmable.		
Digital outputs	2 SW programmable, opto-coupled		
Programming method	Windows™ based SW (DL.CODE™) via serial, USB and Ethernet		
User interface	X-PRESS™, Embedded Human Machine Interface Beeper, Push Button, 7 LEDs (Status, Comm. , Trigger, Good Read, Ready, Power on, Network)		
Code quality metrics	AIM DPM, ISO/IEC 15416		

MODELS

		P/N	STRAIGHT OPTICS	P/N	RIGHT ANGLE OPTICS
ETHERNET	Standard	937501241	MATRIX 210N 211-110 WVGA-NEAR-ETH-ST	937501250	MATRIX 210N 211-010 WVGA-NEAR-90-ETH-ST
		937501242	MATRIX 210N 212-110 WVGA-MED-ETH-ST	937501251	MATRIX 210N 212-010 WVGA-MED-90-ETH-ST
		937501243	MATRIX 210N 213-110 WVGA-FAR-ETH-ST	937501252	MATRIX 210N 213-010 WVGA-FAR-90-ETH-ST
	ESD Safe	937501259	MATRIX 210N 211-111 WVGA-NEAR-ETH-ES	937501268	MATRIX 210N 211-011 WVGA-NEAR-90-ETH-ES
		937501260	MATRIX 210N 212-111 WVGA-MED-ETH-ES	937501269	MATRIX 210N 212-011 WVGA-MED-90-ETH-ES
		937501261	MATRIX 210N 213-111 WVGA-FAR-ETH-ES	937501270	MATRIX 210N 213-011 WVGA-FAR-90-ETH-ES
	ESD Safe YAG laser protection	937501274	MATRIX 210N 211-112 WVGA-NEAR-ETH-ESYF	937501277	MATRIX 210N 211-012 WVGA-NEAR-90-ETH-ESY
		937501275	MATRIX 210N 212-112 WVGA-MED-ETH-ESYF	937501278	MATRIX 210N 212-012 WVGA-MED-90-ETH-ESYF
		937501276	MATRIX 210N 213-112 WVGA-FAR-ETH-ESYF	937501279	MATRIX 210N 213-012 WVGA-FAR-90-ETH-ESYF
	Electronic focus control	937501282	MATRIX 210N 235-110 WVGA-DPM-LL-ETH-STD		
		937501283	MATRIX 210N 235-111 WVGA-DPM-LL-ETH-ES		
		937501284	MATRIX 210N 235-112 WVGA-DPM-LL-ETH-ESYF		
SERIAL	Standard	937501238	MATRIX 210N 211-100 WVGA-NEAR-25P-ST	937501247	MATRIX 210N 211-000 WVGA-NEAR-90-25P-ST
		937501239	MATRIX 210N 212-100 WVGA-MED-25P-ST	937501248	MATRIX 210N 212-000 WVGA-MED-90-25P-ST
		937501240	MATRIX 210N 213-100 WVGA-FAR-25P-ST	937501249	MATRIX 210N 213-000 WVGA-FAR-90-25P-ST
	ESD Safe	937501256	MATRIX 210N 211-101 WVGA-NEAR-25P-ES	937501265	MATRIX 210N 211-001 WVGA-NEAR-90-25P-ES
		937501257	MATRIX 210N 212-101 WVGA-MED-25P-ES	937501266	MATRIX 210N 212-001 WVGA-MED-90-25P-ES
		937501258	MATRIX 210N 213-101 WVGA-FAR-25P-ES	937501267	MATRIX 210N 213-001 WVGA-FAR-90-25P-ES
USB	Standard	937501244	MATRIX 210N 211-120 WVGA-NEAR-USB-ST	937501253	MATRIX 210N 211-020 WVGA-NEAR-90-USB-ST
		937501245	MATRIX 210N 212-120 WVGA-MED-USB-ST	937501254	MATRIX 210N 212-020 WVGA-MED-90-USB-ST
		937501246	MATRIX 210N 213-120 WVGA-FAR-USB-ST	937501255	MATRIX 210N 213-020 WVGA-FAR-90-USB-ST
	ESD Safe	937501262	MATRIX 210N 211-121 WVGA-NEAR-USB-ES	937501271	MATRIX 210N 211-021 WVGA-NEAR-90-USB-ES
		937501263	MATRIX 210N 212-121 WVGA-MED-USB-ES	937501272	MATRIX 210N 212-021 WVGA-MED-90-USB-ES
		937501264	MATRIX 210N 213-121 WVGA-FAR-USB-ES	937501273	MATRIX 210N 213-021 WVGA-FAR-90-USB-ES

READING CHARACTERISTICS

MODELS	FOCUS DISTANCE	FIELD OF VIEW @ FOCUS DISTANCE	PPI (Pix per Element) @ FOCUS DISTANCE	TYP. 1D AND STACKED CODE RESOLUTION	2D CODE RESOLUTION		READING DISTANCE	
	mm (in)	mm (in)		mm (mils)	mm (mils)	mm (in)	Min. mm (in)	Max. mm (in)
MATRIX 210N 211-xxx NEAR	45 (1.77)	35 x 22 (1.38 x 0.87)	545	0.10 (4)	Max.	0.13 (5)	42 (1.65)	53 (2.08)
					Typ.	0.19 (7.5)	36 (1.42)	61 (2.40)
MATRIX 210N 212-xxx MEDIUM	65 (2.56)	50 x 32 (1.97 x 1.26)	380	0.15 (6)	Max.	0.19 (7.5)	54 (2.13)	90 (3.54)
					Typ.	0.25 (10)	47 (1.85)	101 (3.97)
MATRIX 210N 213-xxx FAR	105 (4.13)	80 x 50 (3.15 x 1.97)	238	0.20 (8)	Max.	0.25 (10)	85 (3.35)	135 (5.31)
					Typ.	0.38 (15)	70 (2.76)	192 (7.55)

Rev. 02, 11/2014

CE

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products. Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP