



Datalogic Matrix 220 – Von 1D Barcodes bis Direct Part Markings



Erfasst 1D und 2D Barcodes, Direct Part Markings (DPM) und Digimarc Codes

Der Datalogic Matrix 220 erfasst nicht nur gedruckte 1D- und 2D-Barcodes in hoher Geschwindigkeit, sondern auch kleinste Direct Part Markings (DPM) und unsichtbare Digimarc-Codes. Dies ermöglicht eine vielseitige Anwendung in verschiedenen Branchen, von der Fertigung bis zur Logistik.



Multicore-Prozessor Plattform ermöglicht hohe Lesegeschwindigkeiten

Speziell für Hochgeschwindigkeits-Anwendungen verfügt der stationäre Industriescanner über eine High Dynamic Range (HDR)-Fähigkeit.



Modernste Konnektivität für Industrie 4.0 Anwendungen

Modernste Konnektivität sichern Power over Ethernet und das OPC UA-Protokoll für Industrie 4.0-Anwendungen. Dies ermöglicht eine nahtlose Integration in bestehende Systeme und unterstützt zukunftsichere Automatisierungslösungen.



Elektronischer Fokus für einfache Anpassungen des Leseabstands

Maximale Flexibilität erreicht der Datalogic Matrix 220 mit einem elektronischen Fokus; Anpassungen des Leseabstands können damit einfach über die Software erfolgen.



Robuste Bauform mit IP67 und IP65 Schutz gegen Flüssigkeiten und Staub

Mit IP67 und IP65 gegen Flüssigkeiten und Staub geschützt, kann der robuste Scanner bei Temperaturen bis zu -10 °C eingesetzt werden. Die kompakte Bauform und rotierbare Kabelanschlüsse vereinfachen die Installation in beengten Umgebungen.

Eigenschaften

Lesbare Codes: 1D, 2D, Post, Stapel, DPM, Digimarc

Sensor: 1,2 MP, 45 FPS

Leseabstand: 4 - 40 cm (7 mm Linse) / 60 cm (12 mm Linse)

Lesebereich: 7 mm Linse - 38,3° / 16 mm Linse - 24,1°

Beleuchtungs-LEDs: Blau / Rot / Weiß / UV

Feedback: LEDs, Green & Red Spot, Beeper

Konnektivität: Ethernet, Seriell, OPC UA, optische Ein- / Ausgänge

Stromanschluss: 10 - 30 V DC

Schutz: IP65 and IP67

Betriebstemperatur: -10 - 50°C

Abmessungen: 78 x 47 38 mm

Gewicht: 173 g

Optionales Zubehör

div. Anschlusskabel

Halterung

ESD Schutz

Laserfilter

<i>Standard Model</i>	
Dimensions	78mm x 47mm x 38mm (3.07 x 1.85 x 1.50 in) Connector at 0° 57mm x 47mm x 58mm (2.63 x 1.85 x 2.30 in) Connector at 90°
Weight	173 gr (6,1 oz)
Case Material	Aluminium case and plastic protective window cover
Operating Temperature	-10 to 50°C (14 to 122 °F)
Storage Temperature	-20 to 70 °C (-4 to 158 °F)
Protection Class	IP65, IP67
Sulfur gas resistance	Available for all the models according to ISO EN 60068-2-43
ESD Safe	YES, available as front cover accessory
YAG Laser Protection	YES, available as front cover accessory
ESD Safe and YAG Laser Protection	YES, available as front cover accessory
Flexible Cables	YES, available as accessories
Power Supply	All models except PoE: 10 VDC to 30 VDC PoE models: 48 VDC
Max Power Consumption	All models except PoE: 4,2 Watt (10 VDC to 30 VDC) PoE models: 4,8 Watt (48 VDC)
Sensor	Image resolution 1280 x 960 (1.2 megapixel) - 1/3" CMOS global shutter
Frame Rate	45 frames/s
Optical Focus Control	Electronic focus control
Optical Models/Viewing Angles	7 mm (38,3°), 12 mm (24,1°)
Reading Range	STD-W, STD-W HP & STD-UV HP Minimum: 40 mm Maximum: 400 mm (7 mm lens), 600 mm (12 mm lens)
Illumination	White light White high power light Ultraviolet high power light
Aiming System	2 Red Aimer LEDs
Polarizing Filter	NO
High Dynamic Range (HDR)	Available for all the models
Readable Symbologies	1D Codes: all standard 1 dimensional symbologies 2D Codes: Data Matrix, QR Code, Micro QR, Maxicode, Aztec, Dot code Postal Codes: Royal Mail, Japan Post, Planet, Postnet and many more Digimarc Barcode: DWCODE™
Code Quality Metrics	1D CQ Standard: ISO/IEC 15416 2D CQ Standard: ISO/IEC 16022/18004, ISO/IEC 29158 (AIM-DPM), ISO/IEC 15415
Embedded Communication Interfaces	All models except PoE: - Ethernet 10/100 Mbit/s: TCP/IP, UDP, FTP and Fieldbus PROFINET IO, Ethernet IP, Modbus TCP - Serial RS-232/RS422FD up to 115.2 Kbit/s + Serial Aux RS-232 - OPC UA PoE models: - Ethernet 10/100 Mbit/s PoE Mode A and Mode B: TCP/IP, UDP, FTP and Fieldbus PROFINET IO, Ethernet IP, Modbus TCP - Serial Aux RS-232 - OPC UA
Reader Networking	Datalogic ID-NET™
Connectivity Modes	Pass Through, Master/Slave, Ethernet point to point
Digital Inputs	All models except PoE: 2 inputs opto-coupled and polarity insensitive PoE models: 1 input opto-coupled and polarity insensitive
Digital Outputs	3 Outputs (not available on PoE models): Configurable NPN, PNP, PP short-circuit protected Using CBX the first 2 outputs are opto-coupled
User Interface	X-PRESS™ Human Machine Interface Beeper, Push Button, 7 LEDs (Status, Communication , Trigger, Good Read, Ready, Power on, Network) Green spot and Red spot LEDs Web Monitoring Interface
Device Programming	DL.CODE™ Windows-based software (programming via Ethernet or Serial Interface) with Javascript output formatter Host Mode programming X-PRESS™
Warranty	2-Year Factory Warranty

<i>Direct Part Marking Model</i>	
Dimensions	78mm x 47mm x 38mm (3.07 x 1.85 x 1.50 in) Connector at 0° 57mm x 47mm x 58mm (2.63 x 1.85 x 2.30 in) Connector at 90°
Weight	173 gr (6,1 oz)
Case Material	Aluminium case and plastic protective window cover
Operating Temperature	0 to 45° (32 to 113 °F)
Storage Temperature	-20 to 70 °C (-4 to 158 °F)
Protection Class	IP65, IP67
Sulfur gas resistance	Available for all the models according to ISO EN 60068-2-43
ESD Safe	YES, available as front cover accessory
YAG Laser Protection	YES, available as front cover accessory
ESD Safe and YAG Laser Protection	YES, available as front cover accessory
Flexible Cables	YES, available as accessories
Power Supply	10 VDC to 30 VDC
Max Power Consumption	5,1 Watt (10 VDC to 30 VDC)
Sensor	Image resolution 1280 x 960 (1.2 megapixel) - 1/3" CMOS global shutter
Frame Rate	45 frames/s
Optical Focus Control	Electronic focus control
Optical Models/Viewing Angles	7 mm (38,3°), 12 mm (24,1°)
Reading Range	DPM-R & DPM-B Minimum: 40 mm Maximum: 300 mm DPM-R HP (High speed applications) Minimum: 40 mm Maximum: 400 mm (7 mm lens)
Illumination	Red light with polarizer and diffuser Red high power light with polarizer Blue light with polarizer and diffuser
Aiming System	2 Red Aimer LEDs
Polarizing Filter	YES embedded
High Dynamic Range (HDR)	Available for all the models
Readable Symbolologies	1D Codes: all standard 1 dimensional symbolologies 2D Codes: Data Matrix, QR Code, Micro QR, Maxicode, Aztec, Dot code Postal Codes: Royal Mail, Japan Post, Planet, Postnet and many more
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