



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 zukunftssichere 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 |
| 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 | - 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 |
| Reader Networking | Datalogic ID-NET™ |
| Connectivity Modes | Pass Through, Master/Slave, Ethernet point to point |
| Digital Inputs | 2 inputs opto-coupled and polarity insensitive |
| Digital Outputs | 3 Outputs: 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™ |
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