



## Datalogic Matrix 220 – From 1D Barcodes to Direct Part Markings

- ✓ Erfasst 1D und 2D Barcodes, Direct Part Markings (DPM) und Digimarc Codes
- ✓ Multicore-Prozessor Plattform ermöglicht hohe Lesegeschwindigkeiten
- ✓ Modernste Konnektivität für Industrie 4.0 Anwendungen
- ✓ Elektronischer Fokus für einfache Anpassungen des Leseabstands
- ✓ Robuste Bauform mit IP67 und IP65 Schutz gegen Flüssigkeiten und Staub

## Features

**Readable codes:** 1D, 2D, Post, Stack, DPM, Digimarc

**Sensor:** 1.2 MP, 45 FPS

**Reading distance:** 4 - 40 cm (7 mm lens) / 60 cm (12 mm lens)

**Reading range:** 7 mm lens - 38.3° / 16 mm lens - 24.1°

**Illumination LEDs:** Blue / Red / White / UV

**Feedback:** LEDs, Green & Red Spot, Beeper

**Connectivity:** Ethernet, serial, OPC UA, optical inputs / outputs

**Power supply:** 10 - 30 V DC

**Protection:** IP65 and IP67

**Operating temperature:** -10 - 50°C

**Dimensions:** 78 x 47 38 mm

**Weight:** 173 g

## Optional accessories

Various connection cables

Bracket

ESD protection

Laser filter

	Standard Model	Direct Part Marking Model
<b>Dimensions</b>	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°	
<b>Weight</b>	173 gr (6,1 oz)	
<b>Case Material</b>	Aluminium case and plastic protective window cover	
<b>Operating Temperature</b>	-10 to 50°C (14 to 122 °F)	
<b>Storage Temperature</b>	-20 to 70 °C (-4 to 158 °F)	
<b>Protection Class</b>	IP65, IP67	
<b>Sulfur gas resistance</b>	Available for all the models according to ISO EN 60068-2-43	
<b>ESD Safe</b>	YES, available as front cover accessory	
<b>YAG Laser Protection</b>	YES, available as front cover accessory	
<b>ESD Safe and YAG Laser Protection</b>	YES, available as front cover accessory	
<b>Flexible Cables</b>	YES, available as accessories	
<b>Power Supply</b>	All models except PoE: 10 VDC to 30 VDC PoE models: 48 VDC	
<b>Max Power Consumption</b>	All models except PoE: 4,2 Watt (10 VDC to 30 VDC) PoE models: 4,8 Watt (48 VDC)	
<b>Sensor</b>	Image resolution 1280 x 960 (1.2 megapixel) - 1/3" CMOS global shutter	
<b>Frame Rate</b>	45 frames/s	
<b>Optical Focus Control</b>	Electronic focus control	
<b>Optical Models/Viewing Angles</b>	7 mm (38,3°), 12 mm (24,1°)	
<b>Reading Range</b>	STD-W, STD-W HP & STD-UV HP Minimum: 40 mm Maximum: 400 mm (7 mm lens), 600 mm (12 mm lens)	DPM-R & DPM-B Minimum: 40 mm Maximum: 300 mm DPM-R HP Minimum: 40 mm Maximum: 400 mm (7 mm lens), 600 mm (12 mm lens)
<b>Illumination</b>	White light White high power light Ultraviolet high power light	Red light with polarizer and diffuser Red high power light with polarizer Blue light with polarizer and diffuser
<b>Aiming System</b>	2 Red Aimer LEDs	
<b>Polarizing Filter</b>	NO	YES embedded
<b>High Dynamic Range (HDR)</b>	Available for all the models	
<b>Readable Symbolologies</b>	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 Digimarc Barcode: DWCODE™	
<b>Code Quality Metrics</b>	1D CQ Standard: ISO/IEC 15416 2D CQ Standard: ISO/IEC 16022/18004, ISO/IEC 29158 (AIM-DPM), ISO/IEC 15415	
<b>Embedded Communication Interfaces</b>	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	
<b>Reader Networking</b>	Datalogic ID-NET™	
<b>Connectivity Modes</b>	Pass Through, Master/Slave, Ethernet point to point	
<b>Digital Inputs</b>	All models except PoE: 2 inputs opto-coupled and polarity insensitive PoE models: 1 input opto-coupled and polarity insensitive	
<b>Digital Outputs</b>	3 Outputs (not available on PoE models): Configurable NPN, PNP, PP short-circuit protected Using CBX the first 2 outputs are opto-coupled	
<b>User Interface</b>	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	
<b>Device Programming</b>	DL.CODE™ Windows-based software (programming via Ethernet or Serial Interface) with Javascript output formatter Host Mode programming X-PRESS™	
<b>Warranty</b>	2-Year Factory Warranty	