



Datalogic Matrix 320 – High performance and variable

- ✓ Capture complicated labels and DPM codes at high speed
- ✓ Automatic focus adjustment and individually configurable illumination
- ✓ Targeted adaptation to the area of application through the number and colour of the illumination LEDs, optical filters and flexible brackets
- ✓ Data connection with the latest standards such as OPC UA
- ✓ Simplified installation and control through newly developed software

Features

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

Sensor: 2 MP, format 16:9, 60 FPS

Reading distance: 3.5 - 100 cm / 7 - 150 cm

Reading range: 9 mm liquid lens - 34 ° / 16 mm liquid lens - 20 °

Illumination LEDs: 14 / 36 pcs, Blue / Red / White

Feedback: LEDs, Green & Red Spot, Beeper

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

Power supply: 24 V DC

Protection: IP65 and IP67

Operating temperature: 0 - 45°C

Dimensions: 109 x 54 x 56 mm / 116 x 126 x 70 mm

Weight: 380 g

Optional accessories

div. connection cable

div. holders

Polarisation filter

Laser filter

	14 Led Illuminator Model	36 Led Illuminator Model
Sensor	Image resolution 2.0 Mpixel (1920 x 1080) 16:9 form factor - 1/3" CMOS global shutter	
Frame Rate	60 frames/s	
Reading range	Minimum: 35 mm Maximum: 1000 mm	Minimum: 70 mm Maximum: 1500 mm
Optical models (Viewing angles)	Liquid Lens 9mm (34°), Liquid Lens 16mm (20°)	
Optical Focus Control	Electronic focus control	
Illumination	Internal illuminators colors: Blue, Red, White lights Internal illuminators power: High Power 14 LEDs, Very High Power 36 LEDs	
Readable Symbologies	1D Codes: all standard 1 dimensional symbologies 2D Codes: Data Matrix, QR Code, Micro QR, MAXICODE, Aztec, Dot code Postal Codes: Australia Post, Royal Mail, Kix code, Japan Post, PLANET, POSTNET (+BB), Intelligent Mail, Swedish Post 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	
Power Supply	24 Vdc ± 10%	
Max Power Consumption	0.42 A, 10 W max	0.62 A, 15 W max.
Protection Class EN60529	IP65 and IP67	
Operating Temperature	-0 to 45°C (32 to 113 °F)	
Storage Temperature	-20 to 70 °C (-4 to 158 °F)	
Case Material	Aluminium case and plastic protective window cover	
Dimensions	H 108,7 x W 54 x L 55,5 mm (4.3 x 2.1 x 2.2 in) Connector at 0° H 88 x W 54 x L 75,6 mm (4.3 x 2.1 x 2.2 in) Connector at 90°	H 115,5 x W 126 x L 70,3 mm (4.6 x 4.9 x 2.8 in) Connector at 0° H 101 x W 126 x L 90,7 mm (4.6 x 4.9 x 2.8 in) Connector at 90°
Weight	380 gr (13.4 oz)	
Sulfur gas resistance	Available for all models according to ISO EN 60068-2-43	
ESD Safe	YES, will be available as front cover accessory	
YAG Laser Protection	YES, available as filter accessory (compatible with ESD cover)	
Flexible cables	YES, available as accessories	
Polarizing Filter	Polarizer cover accessory	
Embedded communication interfaces	<ul style="list-style-type: none"> - Ethernet 10/100/1000 Mbit/s: TCP/IP, UDP, FTP and Fieldbus PROFINET IO, Ethernet IP, Modbus TCP - Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Serial Aux RS232 up to 115.2 Kbit/s - 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 Max. Voltage 30 Vdc Max. Input Current 10 mA	
Digital Outputs	3 Outputs: configurable NPN, PNP and PP short-circuit protected VOUT (ILOAD = 0 mA) max. 24 Vdc VOUT (ILOAD = 100 mA) max. 3 Vdc ILOAD max. 100mA Using CBX connection box the first 2 outputs are opto-coupled	
Aiming System	Laser cross red projection aiming	
User Interface	Configurable 360 degree multicolor visual feedback Green spot and Red spot LEDs X-PRESS™ Human Machine Interface Beeper, X-PRESS™ Push Button, 7 LEDs (Status, Communication, Trigger, Good Read, Ready, Power on, Network) Web Monitoring Interface	
Device Programming	DL.CODE™ Windows-based software (programming via Ethernet or Serial Interface) with Javascript output formatter Serial Host Mode programming X-PRESS™ Human Machine Interface	
Warranty	2-Year Factory Warranty	