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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>FIXED FOCUS MODELS</th>
<th>ELECTRONIC FOCUS CONTROL MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>20 x 4 g. (0.7 oz) with cable</td>
<td>237 g. (8.4 oz) with cable</td>
</tr>
<tr>
<td>Case material</td>
<td>Aluminum, plastic protective window cover</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0° to 50°C (32 to 122 °F)</td>
<td>0° to 65 °C (32 to 113 °F)</td>
</tr>
<tr>
<td>YAG laser protection</td>
<td>YES, with ESD Safe front cover accessory</td>
<td></td>
</tr>
<tr>
<td>Sensor</td>
<td>Image Resolution 780 x 480 WVGA - CMOS global shutter</td>
<td></td>
</tr>
<tr>
<td>Frame rate</td>
<td>60 frames/s</td>
<td></td>
</tr>
<tr>
<td>Optical focus control</td>
<td>Fixed</td>
<td>Variable, Electronic focus control</td>
</tr>
<tr>
<td>Aiming system</td>
<td>Blue Ring LED system</td>
<td>Dual laser pointer (CDRH / IEC Class III)</td>
</tr>
</tbody>
</table>

READABLE SYMBOLS

Postal Codes: Royal Mail, Japan Post, Planet, Postnet and many more

1D Codes: all standard 1 dimensional symbologies
2D Codes: Data Matrix, QR Code, Micro QR, Maxicode, Aztec
Post 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

Electronics

Motorola DPM 9500

Connector Head

Blue Ring LED system

Dual laser pointer (CDRH / IEC Class III)

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
X-PRESS™, Embedded Human Machine Interface
Beeper, Push Button, 7 LEDs (Status, Comm., Trigger, Good Read, Ready, Power on, Network)

User interface

X-PRESS™, Embedded Human Machine Interface

X-PRESS™, Embedded Human Machine Interface

Datalogic ID-NET™

Reader networking

Fixed Variable, Electronic focus control
Optical focus control

Aiming system

Blue Ring LED system
Dual laser pointer (CDRH / IEC Class III)

Connectivity modes

Master/Slave, Ethernet point to point

Power supply

0.4 to 0.15 A, 4.5 W max

Sensor

Image Resolution 780 x 480 WVGA - CMOS global shutter

Code quality metrics

AIM DPM, ISO/IEC 15416

CODE RESOLUTION

2D Codes: Data Matrix, QR Code, Micro QR, Maxicode, Aztec
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