Matrix 320 ATS comes with two different illuminators: with 14 LEDs and with 36 LEDs.

Matrix 320 ATS with 14 LEDs illuminator

Matrix 320 ATS with 36 LEDs illuminator

** Matrix 320 ATS comes with two different illuminators: with 14 LEDs and with 36 LEDs.


* Output 1 and Output 2 are opto-coupled when using a CBX.


1. Physically mount the Matrix 320 ATS reader.
2. Make the necessary electrical connections.
3. Configure the reader using the X-PRESS interface (simple configuration) or the DL.CODE software configuration program (complete configuration).

**Environmental Features**

- **Operating temperature:** -20°C to +55°C (-4°F to 122°F)
- **Storage temperature:** -30°C to +70°C (-22°F to 158°F)
- **Max. humidity:** 95% non-condensing
- **Vibration resistance:** EN 60068-2-6
- **Bump resistance:** EN 60068-2-29
- **Shock resistance:** EN 60068-2-7
- **Protection class:** EN 60529
- **Sulfur Gas Resistance:** Available for all models according to ISO EN 60068-2-4

**Physiological Features**

<table>
<thead>
<tr>
<th>Model</th>
<th>Code Resolution</th>
<th>Reading Width @ min. distance</th>
<th>DOF</th>
<th>Min. Reading Distance</th>
<th>Max. Reading Distance</th>
<th>Focus Distance</th>
<th>Vertical POF @ min. distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matrix 320 ATS-500</td>
<td>0.10 (1)</td>
<td>359 (13.1)</td>
<td>250 (9.8)</td>
<td>830 (32.8)</td>
<td>1000 (39.4)</td>
<td>960 (37.0)</td>
<td>202 (7.9)</td>
</tr>
<tr>
<td>Matrix 320 ATS-510</td>
<td>0.25 (10)</td>
<td>270 (10.6)</td>
<td>620 (24.1)</td>
<td>870 (34.5)</td>
<td>730 (28.7)</td>
<td>152 (5.9)</td>
<td></td>
</tr>
<tr>
<td>Matrix 320 ATS-100</td>
<td>0.15 (6)</td>
<td>376 (14.7)</td>
<td>205 (7.9)</td>
<td>850 (33.4)</td>
<td>1200 (47.2)</td>
<td>1000 (39.3)</td>
<td>211 (8.3)</td>
</tr>
<tr>
<td>Matrix 320 ATS-110</td>
<td>0.15 (6)</td>
<td>378 (14.8)</td>
<td>170 (6.6)</td>
<td>830 (32.8)</td>
<td>1200 (48.4)</td>
<td>970 (38.1)</td>
<td>145 (5.7)</td>
</tr>
<tr>
<td>Matrix 320 ATS-200</td>
<td>0.30 (2)</td>
<td>500 (18.1)</td>
<td>280 (10.1)</td>
<td>650 (25.7)</td>
<td>330 (12.9)</td>
<td>157 (6.1)</td>
<td></td>
</tr>
</tbody>
</table>

**Optical Features**

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>Image Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMOS</td>
<td>2.0 MP (1920 x 1080)</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>60 frames/s</td>
</tr>
<tr>
<td>Photo</td>
<td>60 °C to 240 °C</td>
</tr>
</tbody>
</table>

**LED Safety**

According to EN 62471:2010 and EN 60825-1:2014

**Lighting System**

- **Internal illuminator**
- (16-36 LEDs)

**Illumination**

- Internal illuminator with blue lights

**Aiming System**

- Laser beam red projection aiming

**User Interface**

- Power, Ready, Good, Trigger; Com, Status, Ethernet Network; Good Read (Green Spot)

**Keyed button**

- Configurable via DL CODE

**WARRANTY**

Datalogic warrants that the Product shall be free from defects in material and workmanship under normal operation and use during the Warranty Period. Provided, however, that the essential requirements for the CE declaration of conformity are fulfilled.

**COMPLIANCE**

CE compliance is stated by the marking on the product. For more information about the CE declaration of conformity, please refer to the technical documentation provided with the product.

**LED Safety**

For all Datalogic Matrix 320 compatible internal illuminators, LED emission is classified into Risk Group 1 according to EN 62778:2010.

**Safety**

- Class II Laser product as defined in IEC 60825-1:2014
- Aiming System: Class 1 Laser according to EN 60825-1:2014

**CAUTION:**

- Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous laser light.

**DISCLAIMER:**

- Datalogic has the right to alter the hardware and software specifications of the product at any time without notice.

**CONTRIBUTION**

- The particular features or characteristics described herein for the prototype device may change after the product is released.

**NOTICE**

- The product is intended for use in a medical environment. The user must ensure that the product is used in accordance with the instructions provided by Datalogic.

**LIMITED LIABILITY**

- Datalogic shall not be liable for any damage or loss, whether direct or indirect, arising from the use of this device.

**ANTI-COUNTERFEITING**

Datalogic uses anti-counterfeiting measures to protect the intellectual property rights of its products. These measures include: serial numbers, holograms, Tamper-evident labels, and electronic tags.

**TERMS AND CONDITIONS OF SALE**

- Datalogic warrants that the Product is free from defects in material and workmanship under normal operation and use during the Warranty Period. Provided, however, that the essential requirements for the CE declaration of conformity are fulfilled.

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**SALES ENQUIRY**

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**PRODUCT SUPPORT**

- +39 0362 499 9988

**WARRANTY CLAIMS**(1)

- (1) CE declaration of conformity is a living document. The EU declaration of conformity is available under and regulated by the Terms and Conditions of Sale of Datalogic available at https://www.datalogic.com/terms_conditions_sales.

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