TAG-7 Series

CameraLink & GigE Vision Line Scan Camera

- Linear CCD and CMOS technology
- Multiple resolutions from 2K up to 8K, mono and color
- GigE Vision and CameraLink protocols
- Compact size 62x62x28.9 mm
- High Speed: up to 80 KHz line rate
- Internal FPGA for image pre-processing
**TAG-7**

The TAG-7 is the new-generation line scan camera platform for Industrial application. Available with resolution of 2K, 4K and 8K, both monochromatic and color as well as GigE or CameraLink interface, the TAG-7 cameras are suitable for all vision applications.

**FPGA**

Thanks to Tattile’s technology based on FPGA, this line scan camera can execute different preprocessing algorithm in real time.

**Compact size**

Its compact form allows easily integration into any machine and production line, especially for multi-camera systems.

**GigE Vision**

Thanks to GigE Vision Interface, the camera can be easily integrate into a vision system, without using a framegrabber. TAG-7 GigE runs with a frame rate up to 49KHz.

**CameraLink**

TAG-7 CameraLink versions support all configurations (Base, Medium, Full and 80bit), with a Line Rate up to 80 KHz. PoCL (Power over CameraLink) functionality allows a quick and easy installation.
TAG-7 Series
CameraLink & GigE Vision Line Scan Camera

- Compact size
- GigE Vision
- Camera Link
- Power supply
- Encoder
- Digital I/O
### Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Monochrome</th>
<th>Bilinear</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resolution</strong></td>
<td>2048</td>
<td>4096</td>
</tr>
<tr>
<td><strong>GigE Line Rate</strong></td>
<td>49 KHz</td>
<td>24 KHz</td>
</tr>
<tr>
<td><strong>CLink Line Rate</strong></td>
<td>80 KHz</td>
<td>80 KHz</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Mono</td>
<td>Color</td>
</tr>
<tr>
<td><strong>Sensor type</strong></td>
<td>CMOS Awaiba</td>
<td>CMOS Awaiba</td>
</tr>
<tr>
<td><strong>Pixel size (μm)</strong></td>
<td>7 x 7</td>
<td>7 x 7</td>
</tr>
<tr>
<td><strong>Pixel Bit Depth</strong></td>
<td>8 / 10 / 12 bit</td>
<td></td>
</tr>
<tr>
<td><strong>FPGA</strong></td>
<td>Altera Cyclone IV 40K LEs</td>
<td></td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>F-mount, C-mount M42, M72 [*]</td>
<td></td>
</tr>
<tr>
<td><strong>Sync</strong></td>
<td>External trigger / Free run</td>
<td></td>
</tr>
<tr>
<td><strong>Digital inputs</strong></td>
<td>3 RS422 (only GigE version)</td>
<td></td>
</tr>
<tr>
<td><strong>Digital outputs</strong></td>
<td>2 RS422 (only GigE version)</td>
<td></td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>+12/24 VDC</td>
<td>PoCL (only CameraLink version)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>3.6 W</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>62x62x28.9</td>
<td></td>
</tr>
<tr>
<td><strong>Conformity</strong></td>
<td>CE, RoHS</td>
<td></td>
</tr>
</tbody>
</table>

[*] Available on demand

### Part Numbers

**TAG-7 Series - Camera Link - Part Number**
- F01626       2048@80000 Mono
- F01632       4096@80000 Mono
- F01648       8192@80000 Mono
- F01628       2x2048@80000 Color
- F01634       2x4096@80000 Color
- T19014       Adattatore ‘F’ Mount

**TAG-7 Series - GigE Vision - Part Number**
- F01625       2048@49000 Mono
- F01631       4096@24000 Mono
- F01647       8192@12000 Mono
- F01627       2x2048@24000 Color
- F01643       2x4096@12000 Color
- T19014       Adattatore ‘F’ Mount