High resolution area scan cameras
29 MP, 48MP and 71MP cameras

**KEY ADVANTAGES**

**High quality rugged design**
Using the latest industrial components, these cameras are built to last and allow for extended temperature ranges.

**Available in USB3 and Camera Link**
Camera Link offers high speed data rates, and direct accessing of the camera sensor.

**Excellent image quality**
Built-in features include pixel correction, column defect correction, white balancing, flat-field correction.

**Optics to match**
Many Opto Engineering® Telecentric lenses match these 35mm sensors for the best optical performance.

COE cameras are designed to provide high-resolution images, using the latest High Res sensors that offer both quality and speed. The rugged design allows these high resolution sensors to perform under harsh conditions in the most demanding environments.

Additional features include pixel correction, column defect correction, flat-field correction, white balancing and much more. Combined with our large format TC16M telecentric optics, you have a winning solution!

COE cameras are available in USB3 or Camera Link, offering high speeds and reliability. Different filter options and a choice of lens mount allow for easy integration that is perfect for measurement applications, high resolution inspection, security and more.

Combined with Opto Engineering® lenses and illuminators, we can assist in building a fast, reliable and cost effective system.

### Sensor specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Sensor size (mm)</th>
<th>Resolution (pixel)</th>
<th>Mpixel</th>
<th>Sensor details</th>
<th>Camera specifications</th>
<th>Sensor name</th>
<th>Sensor type</th>
<th>Shutter type</th>
<th>Mount</th>
<th>Compatibility</th>
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<tbody>
<tr>
<td>USB 3.0</td>
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<tr>
<td>COE 29xUSB3yy-z</td>
<td>35</td>
<td>6576 x 4384</td>
<td>29</td>
<td>USB3</td>
<td>KAI-29050</td>
<td>CCD</td>
<td>Global shutter</td>
<td>F-mount</td>
<td>K-mount</td>
<td>TC16M, MC12K, EN4K</td>
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<td>7920 x 6004</td>
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<td>USB3</td>
<td>CMV50000</td>
<td>CMOS</td>
<td>Global shutter</td>
<td>F-mount</td>
<td>K-mount</td>
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<tr>
<td>COE 71xUSB3yy-z</td>
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<td>10000 x 7094</td>
<td>71</td>
<td>USB3</td>
<td>CHR70M</td>
<td>CMOS</td>
<td>Rolling shutter</td>
<td>F-mount</td>
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</table>

### Ordering information:

**How to order**

Example:

- **COE29xUSB3yy-z** for a 29 megapixel, USB3 interface camera.
- **COE50xUSB3yy-z** for a 50 megapixel, USB3 interface camera.
- **COE71xUSB3yy-z** for a 71 megapixel, USB3 interface camera.
- **COE29xClyy-z** for a 29 megapixel, Camera Link interface camera.
- **COE50xClyy-z** for a 50 megapixel, Camera Link interface camera.
- **COE71xClyy-z** for a 71 megapixel, Camera Link interface camera.

Examples:

- **COE50CCLSK-K** is for a 50 megapixel, Camera Link, Skylight filter, K-mount camera.
- **COE71MUSB3IR-F** is for a 71 megapixel, USB3, IR filter, F-mount.
- All cameras are available in monochrome or color version at no extra cost.
- Custom OEM camera versions available upon request.

www.opto-engineering.com
COE Line scan cameras are designed to provide high-resolution images, using the latest High Res sensors that offer both quality and speed.

The COE Line Scan cameras use the latest AMS/Awaiba Dragster sensors that offer unequalled sensitivity, bandwidth and signal-to-noise ratio. With advanced power control, the COE-8K and COE-16K can be used in large arrays with confidence.

COE Line scan cameras are available with monochrome sensors and are Camera Link only. This guarantees the fastest and most reliable output that makes this camera ideal for large area flat-panel inspection systems, printed material inspection, PCB inspection and much more.

The camera FPGA includes Photo Response Non-Uniformity (PRNU) which is used to correct the difference in pixel response and the change in response due to optical or light source differences. This correction guarantees the highest quality image.

The M72 mount is ideal to mount our TC12K line scan lenses, and the MC12K macro lenses.

Combined with Opto Engineering® lenses and illuminators, we can assist in building a fast, reliable and cost effective system.