EN5MP2514
Fixed focal 5 Megapixel lens, focal length 25 mm, f# 1.4 - 22, C-mount

SPECIFICATIONS

Optical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Focal length</td>
<td>(mm) 25</td>
</tr>
<tr>
<td>Magnification</td>
<td>0.126</td>
</tr>
<tr>
<td>Image circle Ø</td>
<td>(mm) 11</td>
</tr>
<tr>
<td>Max detector size</td>
<td>2/3&quot;</td>
</tr>
<tr>
<td>Max Working distance</td>
<td>(mm) 200</td>
</tr>
<tr>
<td>F/ nº</td>
<td>1.4 - 22</td>
</tr>
<tr>
<td>Back focal length</td>
<td>(mm) 12.78</td>
</tr>
<tr>
<td>Angle of view with detector of 2/3&quot; (D x H x V)</td>
<td>24.8 x 20.0 x 15.0</td>
</tr>
<tr>
<td>Angle of view with detector of 1/2&quot; (D x H x V)</td>
<td>18.2 x 14.6 x 10.9</td>
</tr>
<tr>
<td>Field of view with detector of 2/3&quot; (D x H x V)</td>
<td>86.1 x 69.0 x 51.7</td>
</tr>
<tr>
<td>Distortion with detector of 2/3&quot;</td>
<td>(%) 0.19</td>
</tr>
<tr>
<td>Distortion with detector of 1/2&quot;</td>
<td>(%) 0.17</td>
</tr>
</tbody>
</table>

Mechanical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Mount</td>
<td>C</td>
</tr>
<tr>
<td>Length</td>
<td>(mm) 59.7</td>
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<tr>
<td>Diameter</td>
<td>(mm) 47.5</td>
</tr>
<tr>
<td>Mass</td>
<td>(g) 148</td>
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<tr>
<td>Filter thread</td>
<td>M37.5x0.5</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10°C - +50°C</td>
</tr>
<tr>
<td>Iris lock</td>
<td>Manual with locking screw</td>
</tr>
<tr>
<td>Focus lock</td>
<td>Manual with locking screw</td>
</tr>
</tbody>
</table>

Compatibility

| Compatible products | COE-G series, COE-U series, mvBlueCDUGAR series, mvBlueFOX3-2 series |

NOTES

1. Angle of view while using detector of 2/3".
2. Angle of view while using detector of 1/2".
3. Max distortion while using detector of 2/3".
4. Max distortion while using detector of 1/2".

PLACEMENT
COMPATIBLE PRODUCTS

**LTPR series**

- **LTPRH3W-W** LED pattern projector 3W, HP, white
- **LTPRH3W-R** LED pattern projector 3W, HP, red
- **LTPRH3W-G** LED pattern projector 3W, HP, green
- **LTPRH3W-B** LED pattern projector 3W, HP, blue
- **LTPRXP-W** High Power LED pattern projector, white
- **LTPRXP-R** High Power LED pattern projector, red
- **LTPRXP-G** High Power LED pattern projector, green
- **LTPRXP-B** High Power LED pattern projector, blue
- **LTPRPW-W** 90W strobed LED pattern projector white
- **LTPRPW-R** 90W strobed LED pattern projector red
- **LTPRPW-G** 90W strobed LED pattern projector green
- **LTPRPW-B** 90W strobed LED pattern projector blue

**COE-G Series**

- **GeniCam® Poli cameras**

<table>
<thead>
<tr>
<th>COE-003-M-POE-010-IR-C</th>
<th>Area Scan camera Python 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;, Gray, GigE, POE, C - mount, Glass filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE-004-M-POE-010-IR-C</td>
<td>Area Scan camera Python 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;, Gray, 300 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-003-C-POE-010-IR-C</td>
<td>Area Scan camera Python 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;, Color, 173 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-004-C-POE-010-IR-C</td>
<td>Area Scan camera Python 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;, Color, 300 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-003-M-POE-010-IR-C</td>
<td>Area Scan camera R338ADA00T, CCD, Global shutter, 640 x 480, 0.3 MP, 7.4 pix, 1/3&quot;, Gray, 200 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-003-C-POE-010-IR-C</td>
<td>Area Scan camera R338ADA00T, CCD, Global shutter, 640 x 480, 0.3 MP, 7.4 pix, 1/3&quot;, Color, 200 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-012-M-POE-010-IR-C</td>
<td>Area Scan camera R3394CASDE, CCD, Global shutter, 1280 x 960, 1.2 MP, 3.75 pix, 1/3&quot;, Gray, 30 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-012-C-POE-010-IR-C</td>
<td>Area Scan camera R3394CASDE, CCD, Global shutter, 1280 x 960, 1.2 MP, 3.75 pix, 1/3&quot;, Color, 30 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-016-M-POE-011-IR-C</td>
<td>Area Scan camera IM273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9&quot;, Gray, 70 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-004-M-POE-011-IR-C</td>
<td>Area Scan camera IM287, CMOS, Global shutter, 720 x 540, 0.4 MP, 6.9 pix, 1/2.9&quot;, Gray, 291 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-016-C-POE-011-IR-C</td>
<td>Area Scan camera IM273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9&quot;, Color, 70 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-004-C-POE-011-IR-C</td>
<td>Area Scan camera IM287, CMOS, Global shutter, 720 x 540, 0.4 MP, 6.9 pix, 1/2.9&quot;, Color, 291 fps, GigE, POE, C - mount, Infrared cut filter</td>
</tr>
<tr>
<td>COE-013-M-POE-030-IR-C</td>
<td>Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 2.2 pix, 1/2.5&quot;, Gray, 14 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
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<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
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<tr>
<td>COE-003-M-USB-010-IR-C</td>
<td>Area Scan camera PYTHON 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;</td>
</tr>
<tr>
<td>COE-003-M-USB-010-IR-R</td>
<td>Area Scan camera PYTHON 300, CMOS, Global shutter, 640 x 480, 0.3 MP, 4.8 pix, 1/4&quot;</td>
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<tr>
<td>COE-016-M-USB-021-IR-C</td>
<td>Area Scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9&quot;</td>
</tr>
<tr>
<td>COE-016-M-USB-021-IR-R</td>
<td>Area Scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9&quot;</td>
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<tr>
<td>COE-050-M-USB-023-IR-C</td>
<td>Area Scan camera AR0521, CMOS, Rolling shutter, 2592 x 1944, 5 MP, 2.2 pix, 1/2.5&quot;</td>
</tr>
<tr>
<td>COE-050-M-USB-023-IR-R</td>
<td>Area Scan camera AR0521, CMOS, Rolling shutter, 2592 x 1944, 5 MP, 2.2 pix, 1/2.5&quot;</td>
</tr>
<tr>
<td>COE-013-M-USB-030-IR-R</td>
<td>Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2&quot;, Gray, 170 fps, USB 3.0, C - mount, infrared cut filter</td>
</tr>
<tr>
<td>COE-013-M-USB-030-IR-C</td>
<td>Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2&quot;, Gray, 170 fps, USB 3.0, C - mount, infrared cut filter</td>
</tr>
<tr>
<td>COE-063-M-USB-040-IR-C</td>
<td>Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8&quot;, Gray, 42 fps, USB 3.0, C - mount, infrared cut filter</td>
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<tr>
<td>COE-063-M-USB-040-IR-R</td>
<td>Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8&quot;, Gray, 42 fps, USB 3.0, C - mount, infrared cut filter</td>
</tr>
<tr>
<td>COE-050-M-USB-050-IR-C</td>
<td>Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3&quot;, Gray, 35 fps, USB 3.0, C - mount, infrared cut filter</td>
</tr>
<tr>
<td>COE-050-M-USB-050-IR-R</td>
<td>Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3&quot;, Gray, 35 fps, USB 3.0, C - mount, infrared cut filter</td>
</tr>
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**USB 3.0 GeniCam® cameras**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>COE-023-M-POE-050-IR-R</td>
<td>Area Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 4.8 pix, 2/3&quot;, Gray, 51 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-023-M-POE-050-IR-C</td>
<td>Area Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 4.8 pix, 2/3&quot;, Gray, 51 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-023-M-PoE-050-IR-R</td>
<td>Area Scan camera PYTHON 2000, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3&quot;, Gray, 35 fps, GigE, POE, C - mount, Glass filter</td>
</tr>
<tr>
<td>COE-023-M-PoE-050-IR-C</td>
<td>Area Scan camera PYTHON 2000, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3&quot;, Gray, 35 fps, GigE, POE, C - mount, Glass filter</td>
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**mvBlueFOX® series**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>RT-mvBF3-2004</td>
<td>USB3 vision camera with Sony Pregius CMOS sensor imx287</td>
</tr>
<tr>
<td>RT-mvBF3-2016</td>
<td>USB3 vision camera with Sony Pregius CMOS sensor IMX273</td>
</tr>
<tr>
<td>RT-mvBF3-2032a</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX265</td>
</tr>
<tr>
<td>RT-mvBF3-2032</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX252</td>
</tr>
<tr>
<td>RT-mvBF3-2064</td>
<td>USB3 vision camera with sony pregius cmos sensor imx178</td>
</tr>
<tr>
<td>RT-mvBF3-2051a</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX264</td>
</tr>
<tr>
<td>RT-mvBF3-2051</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX250</td>
</tr>
<tr>
<td>RT-mvBF3-204a</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX249</td>
</tr>
<tr>
<td>RT-mvBF3-2024</td>
<td>USB3 Vision camera with Sony Pregius CMOS sensor IMX174</td>
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<tr>
<td>Model</td>
<td>Description</td>
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<tr>
<td>RT-mvBF3-2089a</td>
<td>US83 Vision camera with Sony Pregius CMOS sensor IMX267</td>
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<tr>
<td>RT-mvBF3-2089b</td>
<td>US83 Vision camera with Sony Pregius CMOS sensor IMX255</td>
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<tr>
<td>RT-mvBF3-2124a</td>
<td>US83 Vision camera with Sony Pregius CMOS sensor IMX904</td>
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<tr>
<td>RT-mvBF3-2124b</td>
<td>US83 Vision camera with Sony Pregius CMOS sensor IMX253</td>
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**GigE & Dual GigE Vision cameras**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>RT-mvBC-X100w</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/3”, mpxel 0.36, resolution 752 x 480, sensor name MT9W034, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X100f</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/2.9”, mpxel 0.4, resolution 728 x 544, sensor name IMX297, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X102f</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/2.9”, mpxel 1.58, resolution 1456 x 1088, sensor name IMX273, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD102f</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1/2.9”, mpxel 1.58, resolution 1456 x 1088, sensor name IMX273, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X105</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/2.5”, mpxel 5.04, resolution 2592 x 1944, sensor name MT9P031, sensor type CMOS</td>
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<tr>
<td>RT-mvBC-X1010</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/2.3”, mpxel 10.66, resolution 3856 x 2764, sensor name MT9003, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X104i</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/1.8”, mpxel 3.19, resolution 2064 x 1544, sensor name IMX265, sensor type CMOS</td>
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<tr>
<td>RT-mvBC-XD104h</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1/1.8”, mpxel 3.19, resolution 2064 x 1544, sensor name IMX252, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X105b</td>
<td>Camera with interface GigE (1GB/s), sensor size 2/3”, mpxel 5.07, resolution 2464 x 2056, sensor name IMX264, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD105a</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 2/3”, mpxel 5.01, resolution 2468 x 2048, sensor name IMX250, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X104f</td>
<td>Camera with interface GigE (1GB/s), sensor size 1/1.2”, mpxel 2.35, resolution 1936 x 1216, sensor name IMX249, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD104d</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1/1.2”, mpxel 2.35, resolution 1936 x 1214, sensor name IMX174, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X109b</td>
<td>Camera with interface GigE (1GB/s), sensor size 1”, mpxel 8.95, resolution 4112 x 2176, sensor name IMX267, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD109b</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1”, mpxel 8.95, resolution 4112 x 2176, sensor name IMX267, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-X1012b</td>
<td>Camera with interface GigE (1GB/s), sensor size 1.1”, mpxel 12.37, resolution 4112 x 3008, sensor name IMX304, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD107</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1.1”, mpxel 7.1, resolution 3216 x 2208, sensor name IMX420, sensor type CMOS</td>
</tr>
<tr>
<td>RT-mvBC-XD1012b</td>
<td>Camera with interface Dual GigE (2GB/s), sensor size 1.1”, mpxel 12.37, resolution 4112 x 3008, sensor name IMX304, sensor type CMOS</td>
</tr>
</tbody>
</table>

**Accessories**

Additional accessories and add-ons to make the most of Opto Engineering lenses.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT-mvBC-X102eC</td>
<td>CMOS camera GIGE, 1280 x 1024 color, 1/1.8”, 60 Hz, IR cut, C-mount, I/O</td>
</tr>
<tr>
<td>RT-mvBF3-2032AC-1112</td>
<td>CMOS camera USB3, 2064 x 1544 colour, 1/1.8”, 55 Hz, IR cut, C-mount, with I/O</td>
</tr>
<tr>
<td>RT-mvBC-X104iC</td>
<td>CMOS camera GIGE, 2064 x 1544 color, 1/1.8”, 37 Hz, IR cut, C-mount, I/O</td>
</tr>
<tr>
<td>RT-mvBF3-2051AC-1112</td>
<td>CMOS camera USB3, 2464 x 2056 color 2/3”, 35.6 Hz, IR cut, C-mount, with I/O</td>
</tr>
<tr>
<td>RT-mvBC-X1055bC</td>
<td>CMOS camera GIGE, 2464 x 2056 Colour sensor, 2/3”, 23.5 Hz, IR cut, C-mount, I/O</td>
</tr>
</tbody>
</table>