

SENSOR SIZE CHART FIXED FOCAL LENSES

| SENSORS | Sensor Specifications | | | | | | | | | | | |
|---------------|--|--|--|---|---|---|--|--|---|---|---|--|
| | AR0331 CMOS 1/2.3" 2048x1536 2.2pix 3.1Mpix | IMX287 CMOS 1/2.9" 720x540 6.9pix 0.4Mpix | RJ33B4AD0DT CCD 1/3" 640x480 7.4pix 0.3Mpix | MT9M031 CMOS 1/3" 1280x960 3.75pix 1.2Mpix | RJ33 CCD 1/3" 1280x960 3.75pix 1.2Mpix | MT9P031 CMOS 1/2.5" 2592x1944 2.2pix 5Mpix | Python1300 CMOS 1/2" 1280x1024 4.8pix 1.3Mpix | IMX226 CMOS 1/1.7" 4024x3036 1.85pix 12.2Mpix | PYTHON 2000 CMOS 2/3" 1920x1200 4.8pix 2.3Mpix | IMX250 CMOS 2/3" 2464x2056 3.45pix 5Mpix | IMX174 CMOS 1/1.2" 1936x1216 5.86pix 2.3Mpix | Python5000 CMOS 1" 2592x2048 4.8pix 5.3Mpix |
| ANGLE OF VIEW | 2 to 5 ° | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 | EN2MP7528 EN5MP7520 |
| 5 to 7.5 ° | EN2MP3514 EN2MP5018 EN5MP3514 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 | EN2MP5018 EN5MP5018 |
| 7.5 to 10 ° | | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 | EN2MP3514 EN5MP3514 |
| 10 to 12.5 ° | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 |
| 12.5 to 15 ° | | | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 | EN2MP2514 EN5MP2514 |
| 15 to 17.5 ° | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 |
| 17.5 to 20 ° | | | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 | EN2MP1614 EN5MP1616 |
| 20 to 25 ° | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 |
| 25 to 30 ° | EN5MP0816 | | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 | EN2MP1214 EN5MP1216 |
| 30 to 35 ° | | EN5MP0816 | | EN2MP1214, EN- 5MP1216 EN8MPL1220* | | | | | | | | |
| 35 to 40 ° | | | EN5MP0816 | EN5MP0816 | | | | | | | | |
| 40 to 45 ° | | | EN5MP0816 EN8MPL0818* | | | | | | | | | |
| 45 to 50 ° | | | | | EN5MP0816 EN8MPL0818* | EN5MP0816 EN8MPL0818* | | | | | | |
| 50 to 55 ° | | | | | | | EN8MPL0818* | | | | | |
| 55 to 60 ° | | | | | | | | | | | EN8MPL0818* | |
| 60 to 65 ° | | | | | | | | | | | | EN8MPL0818* |

*The EN8MP and EN10MP series will be released soon.

| Sensor Specifications | | | |
|---|---|---|---|
| CMV4000 CMOS 1" 2048x2048 5.5pix 4.1Mpix | IMX183 CMOS 1" 5544x3692 2.4pix 20.4Mpix | IMX255 CMOS 1" 4112x2176 3.45pix 8.9Mpix | KAI29050 CCD 35 mm 6576x4384 5.5pix 28.8Mpix |
| EN8MPL5020* EN10MPL5020* | EN8MPL5020* EN10MPL5020* | | EN8MPL5020* EN10MPL5020* |
| EN8MPL3520* EN10MPL3520* | EN8MPL3520* EN10MPL3520* | EN8MPL3520* EN10MPL3520* | EN8MPL3520* EN10MPL3520* |
| EN8MPL2518* EN10MPL2520* | EN8MPL2518* EN10MPL2520* | EN8MPL2518* EN10MPL2520* | EN8MPL2518* EN10MPL2520* |
| EN8MPL1620* | EN8MPL1620* | | EN8MPL1620* |
| EN8MPL1220* | | EN8MPL1220* | EN8MPL1220* |
| | EN8MPL1220* | EN8MPL1220* | |
| EN8MPL0818* | | | |
| | EN8MPL0818* | | |
| | | EN8MPL0818* | |

LEGEND

| Sensor description | Part number OPTO ENGINEERING® | Part number MATRIX VISION |
|---|-------------------------------|---------------------------|
| Python 300 CMOS 1/4" 640x480 4.8pix 0.3Mpix | COE-004-x-POE-010-yy-C | |
| MT9V034 CMOS 1/3" 752x480 6pix 0.3Mpix | | RT-mvBC-X100wG |
| AR0331 CMOS 1/2.3" 2048x1536 2.2pix 3.1Mpix | | RT-mvBF3-1031G |
| RJ33B4AD0DT CCD 1/3" 640x480 7.4pix 0.3Mpix | COE-003-x-POE-020-yy-C | |
| MT9M031 CMOS 1/3" 1280x960 3.75pix 1.2Mpix | | RT-mvBF3-1012bG |
| RJ33J4CA3DE CCD 1/3" 1280x960 3.75pix 1.2Mpix | COE-012-x-z-020-yy-C | |
| IMX287 CMOS 1/2.9" 720x540 6.9pix 0.4Mpix | COE-004-x-z-021-yy-C | RT-mvBC-X100fG |
| IMX273 CMOS 1/2.9" 1456x1088 3.45pix 1.5Mpix | COE-016-x-z-021-yy-C | RT-mvBC-XD102fG |
| MT9P031 CMOS 1/2.5" 2592x1944 2.2pix 5Mpix | COE-050-M-POE-023-IR-C | RT-mvBC-X105G |
| AR0521 CMOS 1/2.5" 2592x1944 2.2pix 5Mpix | COE-050-x-USB-023-yy-C | |
| Python1300 CMOS 1/2" 1280x1024 4.8pix 1.3Mpix | COE-013-x-z-030-yy-C | |
| IMX265 CMOS 1/1.8" 2064x1544 3.45pix 3.1Mpix | COE-032-x-POE-040-yy-C | RT-mvBC-X104iG |
| IMX252 CMOS 1/1.8" 2064x1544 3.45pix 3.1Mpix | | RT-mvBC-XD104hG |
| IMX178 CMOS 1/1.8" 3096x2080 2.4pix 6.4Mpix | COE-063-x-z-040-yy-C-B | RT-mvBF3-2064G |
| IMX226 CMOS 1/1.7" 4024x3036 1.85pix 12.2Mpix | COE-122-x-POE-041-yy-C | |
| PYTHON 2000 CMOS 2/3" 1920x1200 4.8pix 2.3Mpix | COE-023-x-POE-050-yy-C | |
| IMX264 CMOS 2/3" 2464x2056 3.45pix 5Mpix | COE-050-x-z-050-yy-C | RT-mvBC-X105bG |
| IMX250 CMOS 2/3" 2464x2056 3.45pix 5Mpix | COE-050-x-USB-050-yy-C-A | RT-mvBC-XD105aG |
| CMV2000 CMOS 2/3" 2048x1088 5.5pix 2.2Mpix | | RT-mvBC-XD104a12G |
| IMX249 CMOS 1/1.2" 1936x1216 5.86pix 2.3Mpix | COE-023-x-z-060-yy-C | RT-mvBC-X104fG |
| IMX174 CMOS 1/1.2" 1936x1216 5.86pix 2.3Mpix | | RT-mvBC-XD104dG |
| Python5000 CMOS 1" 2592x2048 4.8pix 5.3Mpix | COE-053-x-z-070-yy-C | |
| CMV4000 CMOS 1" 2048x2048 5.5pix 4.1Mpix | | RT-mvBC-X104bG |
| IMX183 CMOS 1" 5544x3692 2.4pix 20.4Mpix | COE-200-x-POE-070-IR-C | RT-mvBF3-2205G |
| IMX267 CMOS 1" 4112x2176 3.45pix 8.9Mpix | COE-089-x-z-070-yy-C | RT-mvBC-X109bG |
| IMX255 CMOS 1" 4112x2176 3.45pix 8.9Mpix | | RT-mvBF3-2089G |
| IMX432 CMOS 1.1" 1600x1104 9pix 1.7Mpix | | RT-mvBC-X102kG |
| IMX425 CMOS 1.1" 1600x1104 9pix 1.7Mpix | | RT-mvBC-X102mG |
| IMX304 CMOS 1.1" 4112x3008 3.45pix 12.3Mpix | COE-123-x-z-080-yy-C | RT-mvBC-XD1012bG |
| IMX253 CMOS 1.1" 4112x3008 3.45pix 12.3Mpix | | RT-mvBF3-2124G |
| IMX428 CMOS 1.1" 3216x2208 4.5pix 7.1Mpix | | RT-mvBC-X107bG |
| IMX420 CMOS 1.1" 3216x2208 4.5pix 7.1Mpix | | RT-mvBC-XD107G |
| IMX342 CMOS APS-C 6480x4856 3.45pix 31.4Mpix | | RT-mvBC-XD1031G |
| Python 25K CMOS APS-H 5120x5120 4.5pix 26.2Mpix | COE-260-x-10GIGE-100-IR-z | |
| CHR70M CMOS 35 mm 10000x7094 3.1pix 70.9Mpix | COE 29 x USB3 yy - z | |
| KAI29050 CCD 35 mm 6576x4384 5.5pix 28.8Mpix | COE-290-x-z-110-IR-z-B | |
| CMV50000 CMOS 35 mm 7920x6004 4.6pix 47.5Mpix | COE 71 x USB3 yy - z | |