SENSOR PERIODIC TABLE 2022

TELEDYNE FLIR

= CCD
= CMOS - Global Shutter
= CMOS - Rolling Shutter

Pixel size — Megapixels
3.45 um — 51 MP
IMX250 — Part Number
Max. Resolution: 2448 x 2048 — 2/3" — 163 FPS — Max. Frame Rate*
Manufacturer: Sony — Optical Format
BFS-U3-51S5M/C-C
GS3-U3-51S5M/C-C
ORX-10G-51S5M/C-C
Teledyne FLIR Camera Models

CCD

CMOS

<1 MP

- 2.8 µm — 0.3 MP — **ARX383** — 640 x 480 1/8" 120 FPS — onsemi
- 6.9 µm — 0.4 MP — **IMX297** — 728 x 544 1/2.9" 120 FPS — Sony — FFY-U3-0452M/C-C/CS/S
- 9 µm — 0.5 MP — **IMX433** — 818 x 624 1/1.8" 243 FPS — Sony
- 6.9 µm — 0.4 MP — **IMX287** — 728 x 544 1/2.9" 437 FPS — Sony — BFS-U3-0452M/C-C, BFS-PGE-0452M/C-C
- 9 µm — 0.5 MP — **IMX426** — 818 x 624 1/1.8" 1595 FPS — Sony

1.3 MP

- 3.75 µm — 1.3 MP — **RJ33J3CA3DE** — 1288 x 964 1/3" 30 FPS — SHARP — BFLY-PGE-13H2M/C-CS
- 3.75 µm — 1.2 MP — **AR0134** — 1280 x 960 1/3" 54 FPS — onsemi — BFLY-PGE-12A2M/C-CS
- 3.75 µm — 1.2 MP — **AR0135** — 1280 x 960 1/3" 60 FPS — onsemi
- 5.3 µm — 1.3 MP — **EV76C560** — 1280 x 1024 1/1.8" 60 FPS — e2v — BFLY-PGE-13E4C-CS
- 10 µm — 1.3 MP — **EV76C664ABT** — 1280x1024 1" 65 FPS — e2v
- 3 µm — 1.0 MP — **AR0144** — 1280 x 800 1/4" 66 FPS — onsemi
- 4.8 µm — 1.3 MP — **Vita 1300** — 1280 x 1024 1/2" 150 FPS — onsemi — FL3-U3-13Y3M-C
- 4.8 µm — 1.3 MP — **Python 1300** — 1280 x 1024 1/2" 210 FPS — onsemi — BFS-U3-13Y3M/C-C, BFS-PGE-13Y3M/C-C, BFS-PGE-14Y3M-C, CM3-U3-13Y3M/C-C
- 3.75 µm — 1.3 MP — **IMX225** — 1280 x 720 1/3" 120 FPS — Sony

1.6 MP

- 3.45 µm — 1.6 MP — **IMX296** — 1456 x 1088 1/2.9" 60 FPS — Sony — FFY-U3-1652M/C-C/CS/S
- 9 µm — 1.7 MP — **IMX432** — 1934 x 1100 1" 98 FPS — Sony — BFS-PGE-1657M/C-C
- 3.45 µm — 1.6 MP — **IMX273** — 1456 x 1088 1/2.9" 276 FPS — Sony — BFS-U3-1652M/C-C, BFS-PGE-1652M/C-C
- 9 µm — 1.7 MP — **IMX425** — 1604 x 1100 1" 682 FPS — Sony — BFS-U3-1757M/C-C
- 4.2 µm — 1.7 MP — **AR0220AT** — 1920 x 940 1/1.8" 100 FPS — onsemi
- 3.75 µm — 1.4 MP — **IMX238** — 1305 x 1049 1/3" 60 FPS — Sony

2 MP

- 4 µm — 2 MP — **EV76C570ABT6F** — 1600 x 1200 1/1.8" 60 FPS — e2v
- 2.5 µm — 2 MP — **EV2S02MB-PM23000** — 1920 x 1080 1/3.2" 65 FPS — e2v
- 4.5 µm — 2 MP — **IMX430** — 1632 x 1248 1/1.7" 152 FPS — Sony — BFS-PGE-1654M/C-C
- 5.5 µm — 2 MP — **CMV 2000** — 2048 x 1088 2/3" 340 FPS — CMOSIS
- 4.5 µm — 2 MP — **IMX422** — 1632 x 1248 1/1.7" 478 FPS — Sony — BFS-U3-2054M/C-C
- 3 µm — 2 MP — **OV2311** — 1600 x 1300 1/2.9" 60 FPS — OmniVision
- 1.75 µm — 2 MP — **OV2680** — 1616 x 1216 1/5" 30 FPS — OmniVision

2.3 MP

- 5.86 µm — 2.3 MP — **IMX249** — 1920 x 1200 1/1.2" 41 FPS — Sony — BFLY-U3-2365M/C-C, BFLY-PGE-2365M/C-C
- 19 µm — 2.6 MP — **35MMFHDXSCA** — 2160 x 1280 35mm 98 FPS — Canon
- 3 µm — 2.3 MP — **AR0234** — 1920 x 1200 1/2.6" 120 FPS — onsemi
- 5.86 µm — 2.3 MP — **IMX174** — 1920 x 1200 1/1.2" 164 FPS — Sony — GS3-U3-2356M/C-C, GS3-PGE-2356M/C-C
- 3.45 µm — 2.3 MP — **IMX392** — 1920 x 1200 1/2.3" 201 FPS — Sony — BFS-U3-2363M/C-C, BFS-PGE-2363M/C-C
- 4.8 µm — 2.3 MP — **Python 2000** — 1920 x 1200 2/3" 225 FPS — onsemi
- 2.8 µm — 2.3 MP — **IMX290** — 1945 x 1097 1/2.8" 120 FPS — Sony
- 3.75 µm — 2.1 MP — **IMX385** — 1945 x 1097 1/2" 120 FPS — Sony
- 2.9 µm — 2.1 MP — **IMX327** — 1920 x 1080 1/2.8" 60 FPS — Sony

3 MP

- 3.45 µm — 3.1 MP — **IMX265** — 2048 x 1536 1/1.8" 55 FPS — Sony — BFS-PGE-31S4M/C-C, BFS-U3-31S4M/C-C, CM3-U3-31S4M/C-C
- 3.2 µm — 3 MP — **XGS 3000** — 2048 x 1536 1/2" 57 FPS — onsemi
- 4.5 µm — 2.8 MP — **IMX429** — 1944 x 1472 2/3" 98 FPS — Sony — BFS-PGE-27S5M/C-C, BFS-U3-27S5M/C-C
- 3.45 µm — 3.1 MP — **IMX252** — 2048 x 1536 1/1.8" 216 FPS — Sony — BFS-U3-32S4M/C-C, ORX-10G-32S4M/C-C
- 4.5 µm — 2.8 MP — **IMX421** — 1944 x 1472 2/3" 409 FPS — Sony — BFS-U3-28S5M/C-C
- 2.5 µm — 3.2 MP — **IMX124** — 2085 x 1553 1/2.8" 60 FPS — Sony
- 2.2 µm — 3.1 MP — **AR0331** — 2048 x 1536 1/3" 30 FPS — Sony

4 MP

- 5.5 µm — 4 MP — **CMV4000 (NIR)** — 2048 x 2048 1" 180 FPS — CMOSIS — GS3-U3-41C6NIR-C
- 5.5 µm — 4MP — **CMV 4000** — 2048 x 2048 1" 180 FPS — CMOSIS — GS3-U3-41C6M/C-C
- 6 µm — 4 MP — **EV3S4M0B-CLVFL40** — 4096x1024 APS-C 1786 FPS — e2v
- 2 µm — 4 MP — **OV4689** — 2688 x 1520 1/3" 90 FPS — OmniVision
- 2.2 µm — 3.5 MP — **AR0330** — 2304 x 1536 1/3" 60 FPS — Aptina (onsemi)

5 MP

- 3.45 µm — 5 MP — **RJ32S3AA00T** — 2448 x 2048 2/3" 75 FPS — SHARP — BFLY-PGE-50H5M/C-C
- 3.45 µm — 5.1 MP — **IMX264** — 2448 x 2048 2/3" 35 FPS — Sony — BFS-PGE-50S5M/C-C, BFS-U3-50S5M/C-C, CM3-U3-50S5M/C-C
- 2.8 µm — 5 MP — **EV2S05MB-CM20150** — 2592x1936 1/1.8" 54 FPS — e2v
- 4.8 µm — 5.3 MP — **Python 5000** — 2592 x 2048 1" 100 FPS — onsemi
- 2.74 µm — 5.1 MP — **IMX547** — 2472 x 2064 1/1.8" 122 FPS — Sony — BFS-U3-50S4M/C-C, BFS-PGE-50S4M/C-C
- 3.2 µm — 5 MP — **XGS 5000** — 2592 x 2048 2/3" 145 FPS — onsemi
- 3.45 µm — 5.1 MP — **IMX250** — 2448 x 2048 2/3" 163 FPS — Sony — BFS-U3-51S5M/C-C, GS3-U3-51S5M/C-C, ORX-10G-51S5M/C-C
- 3.45 µm — 5.1 MP — **IMX250 (Polarized)** — 2448 x 2048 2/3" 163 FPS — Sony — BFS-PGE-51S5P-C, BFS-PGE-51S5PC-C, BFS-U3-51S5P-C, BFS-U3-51S5PC-C
- 5 µm — 5.2 MP — **Lince5M** — 2560x2048 1" 250 FPS — e2v
- 2.74 µm — 5.1 MP — **IMX537** — 2472 x 2064 1/1.8" 258 FPS — Sony
- 2.2 µm — 5 MP — **AR0521** — 2592 x 1944 1/2.5" 60 FPS — Aptina (onsemi)
- 2 µm — 5 MP — **IMX335** — 2592 x 1944 1/3" 60 FPS — Sony

6 MP

- 5 µm — 5.2 MP — **IBIS4-6600** — 2210 x 3002 1" 5 FPS — onsemi
- 2.74 µm — 5.1 MP — **Lince6M5** — 2560 x 2560 1" 170 FPS — e2v
- 2.4 µm — 6.3 MP — **IMX178** — 3072 x 2048 1/1.8" 60 FPS — Sony — BFS-U3-63S4M/C-C, BFS-PGE-63S4M/C-C

7+ MP

- 4.5 µm — 7.1 MP — **IMX428** — 3208 x 2200 1" 51 FPS — Sony — BFS-U3-70S7M/C-C, BFS-PGE-70S7M/C-C
- 2.74 µm — 8.1 MP — **IMX546** — 2858 x 2848 2/3" 91 FPS — Sony — BFS-U3-80S5M/C-C, BFS-PGE-80S5M/C-C
- 5.5 µm — 8 MP — **CMV8000** — 3380 x 2456 4/3" 104 FPS — CMOSIS
- 3.2 µm — 8 MP — **XGS 8000** — 4096 x 2160 1/1.2" 145 FPS — onsemi
- 2.74 µm — 8.1 MP — **IMX536** — 2858 x 2848 2/3" 154 FPS — Sony
- 4.5 µm — 7.1 MP — **IMX420** — 3208 x 2200 1" 207 FPS — Sony — ORX-10G-71S7M/C-C
- 1.62 µm — 6.8 MP — **IMX326** — 3096 x 2196 1/2.8" 60FPS — Sony
- 3.75 µm — 2.1 MP — **AR0821** — 3840 x 2160 1/1.7" 60 FPS — onsemi
- 2.25 µm — 7.4 MP — **IMX324** — 3848 x 1928 1/1.7" 40 FPS — Sony

9 MP

- 3.45 µm — 8.9 MP — **IMX267** — 4096 x 2160 1" 32 FPS — Sony — BFS-PGE-88S6M/C-C, BFS-U3-88S6M/C-C
- 3.2 µm — 9.4 MP — **XGS 9400** — 3072 x 3072 1/1.2" 90 FPS — onsemi
- 2.8 µm — 8.9 MP — **EV2S8M9B-CLV0351** — 4096x2160 2/3" 91 FPS — e2v
- 3.45 µm — 8.9 MP — **IMX255** — 4096 x 2160 1" 93 FPS — Sony — BFS-U3-89S6M/C-C, GS3-U3-89S6M/C-C, ORX-10G-89S6M/C-C
- 5.3 µm — 1.3 MP — **EV76C660ABTF** — 1280x1024 1/1.8" 60 FPS — e2v
- 2.8 µm — 8.8 MP — **EV2S08MB-CLV0350** — 4096 x 2160 2/3" 107 FPS — e2v
- 2 µm — 8.3 MP — **IMX334** — 3840 x 2160 1/1.8" 60 FPS — Sony
- 4.63 µm — 10.7 MP — **IMX294** — 3704 x 2778 4/3" 24 FPS — Sony

12 MP

- 3.45 µm — 12.3 MP — **IMX304** — 4096 x 3000 1/1.7" 23 FPS — Sony — BFS-U3-122S6M/C-C, BFS-PGE-122S6M/C-C
- 2.8 µm — 12 MP — **EV2S12MB-CLV0151** — 4096x3072 1" 31 FPS — e2v
- 2.74 µm — 12.41 MP — **IMX545** — 4128 x 3008 1/1.1" 66 FPS — Sony — BFS-PGE-120S6M/C-C, BFS-U3-120S6M/C-C
- 3.45 µm — 12.3 MP — **IMX253** — 4096 x 3000 1" 68 FPS — Sony — BFS-U3-123S6M/C-C, GS3-U3-123S6M/C-C, ORX-10GS-123S6M/C-C
- 3.45 µm — 12.3 MP — **IMX253 (Polarized)** — 4096 x 3000 1" 68 FPS — Sony — BFS-PGE-123S6P-C
- 3.2 µm — 12.8 MP — **XGS 12000** — 4096 x 3072 1" 90 FPS — onsemi
- 2.74 µm — 12.4 MP — **IMX535** — 4128 x 3008 1/1.1" 164 FPS — Sony
- 5.5 µm — 12 MP — **CMV1200** — 4096 x 3072 APSize; 300 FPS — CMOSIS
- 6 µm — 11 MP — **Lince11M** — 4096 x 2160 APS-C 609 FPS — e2v
- 1.85 µm — 12 MP — **IMX226** — 4000 x 3000 1/1.7" 40 FPS — Sony — BFS-U3-120S4M/C-CS, BFS-PGE-120S4M/C-CS

16+ MP

- 2.8 µm — 16 MP — **EV2S16MB-CLV0350** — 4096 x 4096 1" 47 FPS — e2v
- 2.74 µm — 16.2 MP — **IMX542** — 5328 x 3040 1/1.7" 50 FPS — Sony — BFS-PGE-161S7M/C-C, BFS-U3-161S7M/C-C
- 3.45 µm — 17 MP — **IMX387** — 5456 x 3076 4/3" 61 FPS — Sony
- 3.2 µm — 16 MP — **XGS 16000** — 4096 x 4096 1" 65 FPS — onsemi
- 4.5 µm — 16 MP — **Python16K** — 4096 x 4096 APS-H 120 FPS — onsemi
- 2.74 µm — 16.2 MP — **IMX532** — 5328 x 3040 1/1" 140 FPS — Sony
- 1.25 µm — 18 MP — **AR1820HS** — 4912 x 3684 1/2.3" 24 FPS — Sony

20+ MP

- 3.45 µm — 20 MP — **IMX367** — 4416 x 4416 4/3" 30 FPS — Sony
- 8.4 µm — 20 MP — **CMV20000** — 5120 x 3840 35mm 30 FPS — CMOSIS
- 2.74 µm — 24.8 MP — **IMX540** — 5328 x 4512 1/1" 31 FPS — Sony — BFS-U3-244S6M/C-C, BFS-PGE-244S6M/C-C
- 2.74 µm — 20.4 MP — **IMX541** — 4512 x 4512 1.7mm 40 FPS — Sony — BFS-PGE-200S7M/C-C, BFS-U3-200S7M/C-C
- 3.2 µm — 20 MP — **XGS 20000** — 4500 x 4500 4/3" 58 FPS — onsemi
- 2.74 µm — 24.8 MP — **IMX530** — 5328 x 4512 1/1" 95 FPS — Sony — ORX-10G-244S6M/C-C
- 2.74 µm — 20.4 MP — **IMX531** — 4512 x 4512 1/1.7mm 98 FPS — Sony
- 2.4 µm — 20 MP — **IMX183** — 5472 x 3648 1" 22 FPS — Sony — BFS-PGE-200S9M/C-C, BFS-U3-200S9M/C-C

25+ MP

- 4.8 µm — 47.5 MP — **CMV50000** — 7920 x 6004 35mm 30 FPS — CMOSIS
- 3.45 µm — 31.4 MP — **IMX342** — 8464 x 4852 APS-C 35 FPS — Sony — ORX-10G-31S5M/C
- 2.5 µm — 67 MP — **EV2S67MB-CLV0650** — 8192x8192 APS-C 85 FPS — e2v
- 3.2 µm — 45 MP — **XGS 45000** — 8192 x 5460 Super 35 mm 48 FPS — onsemi
- 3.2 µm — 30 MP — **XGS 30000** — 5460 x 5460 APS-C 48 FPS — onsemi
- 4.5 µm — 25 MP — **Python25K** — 5120 x 5120 APS-H 80 FPS — onsemi
- 2.5 µm — 327MP — **EV2S36MB-CLV0650** — 8144x8144 4/3" 67 FPS — e2v
- 3.2 µm — 65 MP — **GMAX3265** — 9344 x 7000 35mm 85 FPS — Gpixel
- 2.5 µm — 25 MP — **GMAX0505** — 5120 x 5120 1/1" 150 FPS — Gpixel
- 3.76 µm — 61 MP — **IMX455** — 9568 x 6380 2.7" 21 FPS — Sony
- 2.31 µm — 47 MP — **IMX492** — 8192 x 5556 1.4" 12 FPS — onsemi
- 3.1 µm — 70 MP — **CHR70M** — 10000 x 7096 35mm 3 FPS — CMOSIS

SLOW ← FAST → SLOW

*Maximum frame rate of sensor at maximum resolution. Camera frame rate may be lower due to interface bandwidth limits.
**Indicates unconfirmed / upcoming models.
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