

# ワールドワイド産業用カメラダイレクトリー

## カメラメーカー一覧

| 製品  | センサタイプ                  | カラー /<br>モノクロ | カメラタイプ     | 解像度                  | 波長            | インターフェース                               | フレームレート              | データ<br>レート |
|---|-------------------------|---------------|------------|----------------------|---------------|--|----------------------|------------|
| 4D Technology Corp / 米4Dテクノロジー; www.4dtechnology.com  |                         |               |            |                      |               |  |                      |            |
| PolarCam Polarization Cameras   | CCD                     | M             | —          | —                    | —             | Ethernet, GigE                         | 260                  | —          |
| ABS Gesellschaft für Automatisierung Bildverarbeitung und Software mbH / 独ABS社; www.kameras.abs-jena.de |                         |               |            |                      |               |  |                      |            |
| DKGPU   | CCD & CMOS versions     | C+M           | Area array | —                    | NIR, VIS      | Ethernet, HDMI, USB 1.0/2.0, USB3      | —                    | —          |
| UK39395   | CMOS                    | C+M           | Area array | 4112 × 3000          | VIS           | USB 1.0/2.0, USB3                      | 17-120               | —          |
| DK8075-DVI  | CMOS                    | C             | Area array | 2048 × 1536          | VIS           | DVI                                    | 60                   | —          |
| IK1112 SWIR   | InGaAs                  | —             | Area array | 320 × 256            | SWIR          | USB 1.0/2.0                            | 110                  | —          |
| IK1512 SWIR   | InGaAs                  | —             | Area array | 320 × 256            | SWIR          | USB 1.0/2.0                            | 110                  | —          |
| IK1513 SWIR   | InGaAs                  | —             | Area array | 320 × 256            | SWIR          | USB 1.0/2.0                            | 110                  | —          |
| IK1523 SWIR   | InGaAs                  | —             | Area array | 640 × 512            | SWIR          | USB 1.0/2.0                            | 30                   | —          |
| PK52165   | CCD                     | C+M           | Area array | 2336 × 1752          | VIS           | PCIe                                   | 32                   | —          |
| HK39078   | CMOS                    | C+M           | Area array | 2048 × 1536          | VIS           | DVI, HD-SDI, HDTV                      | 60                   | —          |
| UK31053   | CMOS                    | C+M           | Area array | 1280 × 1024          | VIS           | USB 1.0/2.0, USB3                      | 60                   | —          |
| ADLINK Technology Inc / 米エーディーリンクテクノロジー社; www.adlinktech.com  |                         |               |            |                      |               |  |                      |            |
| NEON-1021 All-in-One Smart Camera   | CMOS                    | M             | Area array | 1600 × 1200          | VIS           | Digital I/O, GigE, RS-232, USB 1.0/2.0 | 60                   | —          |
| NEON-1021-M New Generation x86 Smart Camera   | CMOS                    | M             | —          | 1600 × 1200          | —             | GigE, RS-232, USB 1.0/2.0              | 60                   | —          |
| Allied Vision Technologies GmbH / 独アライドビジョンテクノロジー社; www.alliedvision.com                                |                         |               |            |                      |               |  |                      |            |
| Alvium Camera Series  | CMOS                    | C+M           | Area array | —                    | VIS           | MIPI CSI-2, USB3                       | —                    | —          |
| Mako  | —                       | C+M           | Area array | 0.3-5 MPixels        | NIR, VIS      | GigE, USB3                             | ≤550                 | —          |
| Manta   | —                       | C+M           | Area array | 0.3-12 MPixels       | NIR, VIS      | GigE                                   | ≤125                 | —          |
| Prosilica GT  | —                       | C+M           | Area array | 1.3-29 MPixels       | NIR, VIS      | GigE                                   | ≤62                  | —          |
| Goldeye   | InGaAs Photodiode array | M             | —          | —                    | SWIR          | Camera Link, GigE                      | ≤344                 | —          |
| Bonito PRO  | CMOS                    | C+M           | Area array | 12.5-26.2 MPixels    | NIR, VIS      | CoaXPress                              | ≤142.6               | —          |
| AT - Automation Technology GmbH / 独オートメーション・テクノロジー社; www.automationtechnology.de                        |                         |               |            |                      |               |  |                      |            |
| IRSX Series   | IR                      | M             | Area arr   | 336 × 256, 640 × 512 | IR, LWIR      | Ethernet, GigE                         | 9-200 Hz (windowing) | —          |
| C5-1280-GigE  | 3D                      | M             | Area array | 1280 × 1024          | VIS           | GigE                                   | 288                  | —          |
| C5-2040-GigE  | 3D                      | M             | Area array | 2048 × 1088          | VIS           | GigE                                   | 90                   | —          |
| C5-2040-4M-GigE   | 3D                      | M             | Area array | 2048 × 2048          | VIS           | GigE                                   | 90                   | —          |
| C5-3360-GigE  | 3D                      | M             | Area array | 3060 × 2496          | VIS           | GigE                                   | 52                   | —          |
| C5-4090-GigE  | 3D                      | M             | Area array | 4096 × 3072          | VIS           | GigE                                   | 32                   | —          |
| C2-2040HS-GigE  | 3D                      | M             | Area array | 2048 × 1088          | VIS           | GigE                                   | 170                  | —          |
| ATA-Vision / ベルギー ATAビジョン社; www.ata-vision.com  |                         |               |            |                      |               |  |                      |            |
| Application Specific Smart Camera   | I-CCD                   | —             | Area array | —                    | Multispectral | Ethernet                               | —                    | —          |

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| Avaldata Corp / 韓国アバールデータ社; www.aval-global.com                    |                           |               |            |  |               |   |             |            |
| ABA-003IR  | InGaAs                    | C+M           | —          | —  | SWIR          | Camera Link,<br>GigE                        | 62          | —          |
| Basler AG / 独バスラー社; www.baslerweb.com                              |                           |               |            |  |               |   |             |            |
| Basler ace 2   | CMOS                      | C+M           | Area array | 1920 × 1200-<br>3840 × 2160  | VIS           | GigE, USB3                                  | ≤160        | —          |
| Basler ace classic   | CCD &<br>CMOS<br>versions | C+M           | Area array | 658 × 492-<br>4608 × 3288  | NIR, VIS      | Camera Link,<br>GigE, USB3                  | ≤340        | —          |
| Basler ace U   | CMOS                      | C+M           | Area array | 640 × 480-<br>5472 × 3648  | VIS           | GigE, USB3                                  | ≤751        | —          |
| Basler ace L   | CMOS                      | C+M           | Area array | 4096 × 2160-<br>4096 × 3000  | VIS           | GigE, USB3                                  | ≤42         | —          |
| Basler boost   | CMOS                      | C+M           | Area array | 4096 × 2168-<br>4096 × 3000  | VIS           | CoaXPress<br>2.0                            | ≤93         | —          |
| Basler blaze   | CMOS                      | M             | Area array | 640 × 480  | NIR           | GigE  | 30          | —          |
| Basler dart  | CMOS                      | C+M           | Area array | 1280 × 960-<br>4208 × 3120   | VIS           | MIPI, LVDS,<br>USB3                         | 14-60       | —          |
| Basler pulse   | CMOS                      | C+M           | Area array | 1280 × 960-<br>2592 × 1944   | VIS           | USB3  | ≤60         | —          |
| Basler beat  | CMOS                      | C+M           | Area array | 4088 × 3070,<br>4096 × 3072  | VIS           | Camera Link                                 | 62          | —          |
| MED ace  | CMOS                      | C+M           | Area array | 1920 × 1200,<br>2448/2590 ×<br>2048, 4096 ×<br>2160/3000,<br>5472 × 3648 | VIS           | USB3, GigE                                  | ≤164        | —          |
| Basler pilot   | CCD                       | C+M           | Area array | 646 × 488-<br>1608 × 1204  | VIS           | GigE  | ≤60         | —          |
| Basler scout   | CCD &<br>CMOS<br>versions | C+M           | Area array | 658 × 492-<br>1626 × 1236  | VIS           | GigE  | ≤70         | —          |
| Basler racer   | CMOS                      | M             | Line scan  | 2048 × 1<br>4096 × 1,<br>6144 × 1,<br>8192 × 1,<br>12,288 × 1            | VIS           | Camera Link,<br>GigE                        | —           | ≤80 kHz    |
| Baumer Optronic GmbH / 独バウマー オプトロニック社; www.baumer.com/vision;      |                           |               |            |  |               |   |             |            |
| CX series  | CMOS                      | C+M           | Area array | ≤12 MPixels  | —             | GigE, USB3                                  | ≤891        | —          |
| EX series  | CMOS                      | C+M           | Area array | ≤2 MPixels   | —             | GigE, USB3                                  | ≤217        | —          |
| LX series  | CMOS                      | C+M           | Area array | —  | —             | Camera Link,<br>10 GigE, Dual<br>GigE, GigE | ≤337        | —          |
| QX series  | CMOS                      | C+M           | Area array | —  | —             | 10 GigE                                     | 335         | —          |
| LX VisualApplets cameras   | CMOS                      | M             | Area array | 4-20 MPixels   | —             | GigE  | ≤338        | —          |
| MX series  | CMOS                      | C+M           | Area array | VGA-4 MPixels  | —             | GigE  | 27-373      | —          |
| VeriSens XF<br>vision sensors                                      | CMOS                      | M             | Area array | 752 × 480  | —             | Digital I/O,<br>Ethernet                    | >8000       | —          |
| VeriSens XC<br>vision sensors                                      | CCD                       | C+M           | Area array | VGA-2 MPixels  | —             | Digital I/O,<br>Ethernet                    | >8000       | —          |
| VeriSens IP 69K<br>vision sensors                                  | CMOS                      | M             | Area array | 752 × 480  | —             | Digital I/O,<br>Ethernet                    | >8000       | —          |
| Baumer CX.I cameras  | CMOS                      | C+M           | Area array | —  | —             | GigE  | —           | —          |
| Bodkin Design & Engineering LLC / 米ボドキンデザイン社; www.bodkindesign.com |                           |               |            |  |               |   |             |            |
| VNIR-90 Hyperspectral<br>Imager                                    | CMOS                      | C             | Area array | —  | Multispectral | USB 1.0/2.0,<br>USB3                        | 25 cubes/s  | —          |
| IRZ-2575 LWIR Optical<br>Zoom Camera                               | CMOS                      | C             | Area array | —  | LWIR          | USB 1.0/2.0,<br>USB3                        | 30          | —          |

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| MWIR-20   | CMOS          | C             | Area array     | —                                  | LWIR                  | USB 1.0/2.0,<br>USB3                       | ≤130<br>cubes/s | —               |
| Canon Medical Systems USA Inc / 米キヤノンメディカルシステムズ社; www.us.medical.canon/vsd  |               |               |                |                                    |                       |  |                 |                 |
| SV-1000   | CMOS          | C             | Line scan      | 400 × 400                          | VIS                   | HDMI, USB3                                 | 30              | —               |
| JCS-HR5U  | CMOS          | C             | Area array     | 1920 × 1080                        | VIS                   | HDMI, USB3                                 | 60              | 59.94 Hz        |
| IK-HD5UM  | CMOS          | C+M           | Area array     | 1920 × 1080                        | VIS                   | DVI, RS-232,<br>USB3                       | —               | 50,<br>59.94 Hz |
| Ultra HD IK-4K, 3-Chip<br>Ultra HD 4K Video Camera<br>(2-Piece Remote Head) | CMOS          | C             | Area array     | 3840 × 2160,<br>1920 × 1080        | VIS                   | RS-232                                     | 60, 50          | —               |
| IK-HD5 3CMOS 1080p<br>HD Video Camera<br>(2-Piece Remote Head)              | CMOS          | C             | Area array     | 1920 × 1080                        | NIR, VIS              | DVI, RS-232                                | 60, 50          | —               |
| Chromasens GmbH / 独クロマセンス社; www.chromasens.de                               |               |               |                |                                    |                       |  |                 |                 |
| allPIXA pro 2048  | CCD           | C             | Line scan      | 2048 × RGB                         | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 92.7 kHz        |
| allPIXA pro 4096  | CCD           | C             | Line scan      | 4096 × RGB                         | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 50.8 kHz        |
| allPIXA pro 7300  | CCD           | C             | Line scan      | 7300 × RGB                         | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 29.7 kHz        |
| allPIXA pro customized  | CCD           | C             | Line scan      | 1024-7300 × RGB                    | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 156 kHz         |
| allPIXA pro 6000  | CCD           | C             | Line scan      | 6000 × RGB                         | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 34.4 kHz        |
| allPIXA Line<br>Scan Cameras  | CCD           | C             | Line scan      | 3 × 2048,<br>3 × 4096,<br>3 × 7300 | VIS                   | Digital I/O,<br>RS-232                     | —               | ≤60.7<br>kHz    |
| 3DPIXA -<br>Stereo Line Scan Camera   | 3D            | C             | Line scan      | —                                  | VIS                   | Camera Link,<br>Digital I/O,<br>RS-232     | —               | 60 kHz          |
| truePIXA  | Multispectral | C             | Line scan      | —                                  | Multispectral,<br>VIS | Camera Link,<br>Digital I/O,<br>RS-232     | —               | ≤30 kHz         |
| allPIXA wave - 15k  | CMOS          | C+M           | Line scan      | 4 × 15,360                         | VIS                   | Digital I/O,<br>RS-232,<br>RS-422/<br>LVDS | —               | ≤150 kHz        |
| allPIXA wave - 10k  | CMOS          | C+M           | Line scan      | 4 × 10,240                         | VIS                   | Digital I/O,<br>RS-232                     | —               | ≤150 kHz        |
| CMICRO Corporation / シーマイクロ; https://www.cmicro.co.jp                       |               |               |                |                                    |                       |  |                 |                 |
| FXS800A   | CMOS          | Mono          | Line scan      | 8192                               | VIS                   | CoaXPress                                  |                 | 72.4KHz         |
| FXD800A   | CMOS          | Mono          | Dual Line scan | 8192                               | VIS                   | CoaXPress                                  |                 | 72.4KHz         |
| FXS400A   | CMOS          | Mono          | Line scan      | 4096                               | VIS                   | CoaXPress                                  |                 | 72.4KHz         |
| FXD400A   | CMOS          | Mono          | Dual Line scan | 4096                               | VIS                   | CoaXPress                                  |                 | 72.4KHz         |
| TFB200P   | 3CCD          | Color         | Line scan      | 2048 × 3                           | VIS                   | Camera Link                                |                 | 18.7KHz         |
| FCS16KA   | CMOS          | Mono          | Line scan      | 16384                              | VIS                   | Camera Link                                |                 | 40.6KHz         |
| FCH800A   | CMOS          | Mono          | Line scan      | 8092                               | VIS                   | Camera Link                                |                 | 72.4KHz         |
| NDB100H   | InGaAs        | Mono          | Line scan      | 1024 × 2                           | SWIR                  | Camera Link/<br>GigE                       |                 | 40/32.6 K<br>Hz |
| NHB050H   | InGaAs        | Mono          | Line scan      | 512                                | SWIR                  | Camera Link                                |                 | 8.14KHz         |
| KFB200  | 3D            | Mono          | Area array     | 2048 × 1088                        | VIS                   | Camera Link/<br>Ethernet                   | 3200(MAX)       |                 |

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| KFB080   | 3D               | Mono          | Area array | 1280 × 1024         | VIS       | Camera Link                                      | 5000(MAX)     |            |
| Cognex Natick / 米コグネックス社; www.cognex.com   |                  |               |            |                     |           |  |               |            |
| In-Sight 7000<br>Vision Systems  | CMOS             | C+M           | Area array | 800 × 600           | VIS       | Ethernet   | —             | —          |
| In-Sight 9912  | —                | C+M           | Area array | 4096 × 3000         | VIS       | Ethernet   | 14 (M), 8 (C) | —          |
| 3D Displacement Sensors  | 3D               | C+M           | —          | —                   | —         | Ethernet   | —             | 60 kHz     |
| Contrast Inc / 米コントラスト社; www.contrastoptical.com   |                  |               |            |                     |           |  |               |            |
| VIA camera   | CMOS             | C             | —          | —                   | NIR, VIS  | Digital I/O,<br>Ethernet,<br>GigE, HDMI,<br>USB3 | 30-120        | 255 Mp/s   |
| ARC HDR camera   | CMOS             | C             | Area array | —                   | NIR, VIS  | Digital I/O,<br>Ethernet,<br>GigE, HDMI,<br>USB3 | 30-120        | 255 Mp/s   |
| LUX HDR camera   | CMOS             | C             | Area array | —                   | NIR, VIS  | Digital I/O,<br>Ethernet,<br>GigE, HDMI,<br>USB3 | 3-120         | 255 Mp/s   |
| China Daheng Group Inc / 中国Daheng Group社; www.daheng-imaging.com   |                  |               |            |                     |           |  |               |            |
| MER-230-168U3M/C   | CMOS             | C+M           | Area array | —                   | —         | USB3   | 168           | —          |
| MER-301-125U3M/C   | CMOS             | C+M           | Area array | —                   | —         | USB3   | 125           | —          |
| MER-502-79U3M/C  | CMOS             | C+M           | Area array | —                   | —         | USB3   | 79            | —          |
| MARS-880-13GM/C-P  | CMOS             | C+M           | Area array | —                   | —         | Ethernet,<br>GigE                                | 13            | —          |
| MARS-1230-9GM/C-P  | CMOS             | C+M           | Area array | —                   | —         | Ethernet,<br>GigE                                | 9             | —          |
| MER-031-300GM/C-P  | CMOS             | C+M           | —          | —                   | —         | 10 GigE, GigE                                    | 300           | —          |
| MER-231-41GM/C-P   | CMOS             | C+M           | Area array | —                   | —         | Ethernet,<br>GigE                                | 41            | —          |
| MER-503-20GM/C-P   | CMOS             | C+M           | —          | —                   | —         | Ethernet,<br>GigE                                | 20            | —          |
| MER-2000-5GM/C-P   | CMOS             | C+M           | Area array | —                   | —         | Ethernet,<br>GigE                                | 5             | —          |
| MER-131-75GM/C-P   | CMOS             | M             | Area array | —                   | —         | —  | 75            | —          |
| MER-050-560U3M/C   | CMOS             | C+M           | Area array | —                   | —         | USB3   | 560           | —          |
| Datalogic USA Inc / 米データロジック社; www.datalogic.com   |                  |               |            |                     |           |  |               |            |
| Matrix 220   | CMOS             | M             | Area array | WVGA-1.2<br>MPixels | VIS       | Digital I/O,<br>Ethernet,<br>RS-232              | 45            | —          |
| P Series   | CMOS             | C+M           | —          | —                   | —         | Ethernet,<br>RS-232                              | 60-120        | —          |
| Emergent Vision Technologies Inc / 加エマーゼント・ビジョン・テクノロジー社; www.emergentvisiontec.com / Distributor 株式会社アルゴ; argocorp.com |                  |               |            |                     |           |  |               |            |
| HR/HT-2000   | CMOS<br>CMV2000  | C + M         | Area array | 2048 x 1088         | VIS + NIR | 10GigE   | 338           | -          |
| HR/HT-3000-S   | CMOS IMX252      | C + M         | Area array | 2048 x 1536         | VIS       | 10GigE   | 216           | -          |
| HR/HT-4000   | CMOS<br>CMV4000  | C + M         | Area array | 2048 x 2048         | VIS + NIR | 10GigE   | 179           | -          |
| HR/HT-5000-S   | CMOS IMX250      | C + M         | Area array | 2448 x 2048         | VIS       | 10GigE   | 163           | -          |
| HR/HT-8000-S   | CMOS IMX255      | C + M         | Area array | 4096 x 2160         | VIS       | 10GigE   | 110           | -          |
| HR/HT-12000-S  | CMOS IMX253      | C + M         | Area array | 4096 x 3000         | VIS       | 10GigE   | 80            | -          |
| HR/HT-12000  | CMOS<br>CMV12000 | C + M         | Area array | 4096 x 3072         | VIS + NIR | 10GigE   | 84            | -          |

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| HR/HT-20000   | CMOS<br>CMV20000           | C + M        | Area array  | 5120 x 3840 | VIS          | 10GigE   | 32      | -            |
| HR/HT-50000   | CMOS<br>CMV50000           | C + M        | Area array  | 7920 x 6004 | VIS          | 10GigE   | 23      | -            |
| HR/HT-5000-S-P  | CMOS<br>IMX250MYR +<br>MZR | C + M        | Area array  | 2448 x 2048 | -            | 10GigE   | 163     | -            |
| HR/HT-12000-S-P   | CMOS<br>IMX253MYR +<br>MZR | C + M        | Area array  | 4096 x 3000 | -            | 10GigE   | 80      | -            |
| PACE LR/LT-8KG  | CMOS GLO816                | C + M        | Line camera | 8192 x 1    | VIS          | 10GigE   | -       | 137K         |
| HB-500-S  | CMOS IMX426                | C + M        | Area array  | 812 x 620   | VIS          | 25GigE   | 1594    | -            |
| HB-1800-S   | CMOS IMX425                | C + M        | Area array  | 1604 x 1100 | VIS          | 25GigE   | 662     | -            |
| HB-2000-S   | CMOSIMX422                 | C + M        | Area array  | 1624 x 1240 | VIS          | 25GigE   | 477     | -            |
| HB-2800-S   | CMOS IMX421                | C + M        | Area array  | 1936 x 1464 | VIS          | 25GigE   | 409     | -            |
| HB-5000-G   | CMOS<br>GMAX2505           | C + M        | Area array  | 2600 x 2160 | VIS          | 25GigE   | 290     | -            |
| HB-5000-SB  | CMOS IMX537                | C + M        | Area array  | 2472 x 2064 | VIS          | 25GigE   | 269     | -            |
| HB-7000-S   | CMOS IMX420                | C + M        | Area array  | 3208 x 2200 | VIS          | 25GigE   | 207     | -            |
| HB-8000-SB  | CMOS IMX536                | C + M        | Area array  | 2858 x 2848 | VIS          | 25GigE   | 201     | -            |
| HB-9000-G   | CMOS<br>GMAX2509           | C + M        | Area array  | 4200 x 2160 | VIS          | 25GigE   | 290     | -            |
| HB-12000  | CMOS<br>CMV12000           | C + M        | Area array  | 4096 x 3072 | VIS          | 25GigE   | 188     | -            |
| HB-12000-SB   | CMOS IMX535                | C + M        | Area array  | 4128 x 3008 | VIS          | 25GigE   | 192     | -            |
| HB-16000-SB   | CMOS IMX532                | C + M        | Area array  | 5320 x 3032 | VIS          | 25GigE   | 145     | -            |
| HB-17000-S  | CMOS IMX387                | C + M        | Area array  | 5456 x 3076 | VIS          | 25GigE   | 61      | -            |
| HB-20000-S  | CMOS IMX367                | C + M        | Area array  | 4416 x 4428 | VIS          | 25GigE   | 43      | -            |
| HB-20000-SB   | CMOS IMX531                | C + M        | Area array  | 4504 x 4504 | VIS          | 25GigE   | 100     | -            |
| HB-25000-G  | CMOS<br>GMAX0505           | C + M        | Area array  | 5120 x 5120 | VIS          | 25GigE   | 75      | -            |
| HB-25000-SB   | CMOS IMX530                | C + M        | Area array  | 5320 x 4600 | VIS          | 25GigE   | 98      | -            |
| HB-30000-S  | CMOS IMX342                | C + M        | Area array  | 6464 x 4852 | VIS          | 25GigE   | 35      | -            |
| HB-50000  | CMOS<br>CMV50000           | C + M        | Area array  | 7920 x 6004 | VIS          | 25GigE   | 30      | -            |
| HB-65000-G  | CMOS<br>GMAX3265           | C + M        | Area array  | 9344 x 7000 | VIS          | 25GigE   | 35      | -            |
| ACCEL LB-8KG  | CMOS GLO816                | C + M        | Line camera | 8192 x 1    | VIS          | 25GigE   | -       | 200K         |
| Entwicklungsbuero / 独Entwicklungsbuero社; <a href="http://www.stresing.de">www.stresing.de</a> |                            |              |             |             |              |  |         |              |
| FL3000  | CCD &<br>CMOS<br>versions  | M            | Line scan   | —           | NIR, UV, VIS | Fiber optic,<br>PCIe   | 50k     | 30 MHz       |
| EPIX Inc / 米EPIX社; <a href="http://www.epixinc.com">www.epixinc.com</a>                       |                            |              |             |             |              |  |         |              |
| SILICON VIDEO 1820CL  | CMOS                       | C            | Area array  | 4608 x 3288 | VIS          | Camera Link,<br>Camera Link<br>Extended-Full,<br>Camera Link<br>Extended,<br>Camera Link<br>Full, LVDS | 24      | 4360<br>Mbps |

| 製品  | センサタイプ | カラー /<br>モノクロ | カメラタイプ     | 解像度         | 波長       | インタフェース  | フレームレート | データ<br>レート  |
|---|--------|---------------|------------|-------------|----------|--|---------|-------------|
| SILICON VIDEO 1C45,<br>1M45   | CMOS   | C+M           | Area array | 1280 × 960  | VIS      | LVDS,<br>Proprietary   | 45-1200 | 1000<br>MHz |
| SILICON VIDEO 643   | CMOS   | C+M           | Area array | 640 × 480   | VIS      | LVDS<br>Proprietary  | 212     | 1000<br>MHz |
| SVWGAC or SVWGAM  | CMOS   | C+M           | Area array | 752 × 480   | VIS      | LVDS,<br>Proprietary   | 60-1338 | 1000<br>MHz |
| SILICON VIDEO 1514  | CMOS   | C+M           | Area array | 4912 × 3684 | VIS      | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full  | 24      | —           |
| SILICON VIDEO 035   | CMOS   | C             | Area array | 640 × 480   | VIS      | Analog, NTSC,<br>NTSC/PAL/<br>RS-170, PAL  | 30      | 768 kHz     |
| SILICON VIDEO 20  | CMOS   | C+M           | Area array | —           | VIS      | Camera Link,<br>Camera Link<br>Extended-Full,<br>Camera Link<br>Extended,<br>Camera Link<br>Full, CCIR,<br>NTSC, NTSC/<br>PAL/RS-170,<br>PAL, PCIe,<br>Proprieta | 30-240  | —           |
| SILICON VIDEO 10C6 &<br>10M6  | CMOS   | C             | Area array | 3840 × 2764 | VIS      | LVDS,<br>Proprietary   | 7       | 1000<br>MHz |
| SILICON VIDEO<br>5C10/5M10  | CMOS   | C+M           | Area array | 2592 × 1944 | VIS      | LVDS,<br>Proprietary   | 10      | 700 MHz     |
| SILICON VIDEO 9M001   | CMOS   | M             | Area array | 1280 × 1024 | VIS      | LVDS   | 43      | 600 kHz     |
| Fastec Imaging Corp / 米ファステックイメージング社; <a href="http://www.fastecimaging.com">www.fastecimaging.com</a>        |        |               |            |             |          |  |         |             |
| TS5 High-speed Camera   | CMOS   | C+M           | Area array | 2560 × 2048 | VIS      | Digital I/O,<br>Ethernet,<br>GigE, USB<br>1.0/2.0  | 253     | 1325<br>MHz |
| Fastec IL5  | CMOS   | C+M           | Area array | 2560 × 2048 | VIS      | Digital I/O,<br>Ethernet,<br>GigE, USB<br>1.0/2.0  | 253     | 1325<br>MHz |
| HiSpec 1 High-speed<br>Digital Video Camera   | CMOS   | C+M           | Area array | 1280 × 1024 | VIS      | Ethernet, GigE   | 506     | 650 MHz     |
| FJW Optical Systems Inc / 米エフジェーダブリューオプティカルシステムズ社; <a href="http://www.findrscope.com">www.findrscope.com</a> |        |               |            |             |          |  |         |             |
| FJW<br>84499A/85643/85291<br>Find-R-Scope w/Video<br>Camera   | CCD    | M             | Area array | 500 × 582   | NIR, VIS | Analog, NTSC,<br>RS-170  | 30      | —           |
| FJW 84499A-<br>5/85643/85291<br>Find-R-Scope w/Video<br>Camera  | CCD    | M             | Area array | 500 × 582   | NIR, VIS | Analog, NTSC,<br>RS-170  | 30      | —           |
| FJW 85201 IR Video<br>System  | CCD    | M             | Area array | 500 × 582   | NIR, VIS | Analog, NTSC,<br>RS-170  | 30      | —           |
| FJW 85201 P IR Video<br>System  | CCD    | M             | Area array | 510 × 492   | NIR, VIS | Analog, PAL  | 25      | —           |
| FJW 85291 Find-R-Scope<br>Eyepiece Camera   | CCD    | M             | Area array | 500 × 582   | VIS      | Analog, NTSC,<br>RS-170  | 30      | —           |

| 製品   | センサタイプ                    | カラー/<br>モノクロ | カメラタイプ     | 解像度             | 波長                | インタフェース  | フレームレート  | データ<br>レート                                  |
|--|---------------------------|--------------|------------|-----------------|-------------------|--|--|---|
| FJW 85291 P Find-R-<br>Scope Eyepiece Camera   | CCD                       | M            | Area array | 510 × 492       | VIS               | Analog, PAL                                      | 25   | —   |
| FJW<br>85300/85643/85291<br>UV Viewer w/Video<br>Camera  | CCD                       | M            | Area array | 500 × 582       | NIR, UV, VIS      | Analog, NTSC,<br>RS-170                          | 30   | —   |
| FJW 85300-<br>5/85643/85291 UV<br>Viewer w/Video Camera  | CCD                       | M            | Area array | 500 × 582       | NIR, UV, VIS      | Analog, NTSC,<br>RS-170                          | 30   | —   |
| FJW 85700<br>Vidicon Camera  | —                         | M            | Area array | 525 × 700       | SWIR, NIR,<br>VIS | Analog,<br>NTSC/PAL/<br>RS-170                   | 30   | —   |
| FJW 85706<br>Vidicon Camera  | —                         | M            | Area array | 525 × 700       | SWIR, NIR,<br>VIS | Analog,<br>NTSC/PAL/<br>RS-170                   | 30   | —   |
| FLIR Integrated Imaging Solutions / 加フリアーインテグレートッド・イメーシング・ソリューション社; <a href="http://www.flir.com/mv">www.flir.com/mv</a> |                           |              |            |                 |                   |  |  |   |
| Firefly DL   | CMOS                      | M            | —          | 0.4 MPixels     | —                 | USB3   | —  | —   |
| Firefly S  | CMOS                      | C+M          | —          | 0.4-1.6 MPixels | —                 | USB3   | —  | —   |
| Blackfly S USB3  | CCD &<br>CMOS<br>versions | C+M          | —          | 0.4-20 MPixels  | —                 | USB3   | —  | —   |
| Blackfly S GigE  | CMOS                      | C+M          | Area array | 0.4-20 MPixels  | VIS               | Digital I/O,<br>Ethernet,<br>GigE                | —  | —   |
| Grasshopper3   | CCD &<br>CMOS<br>versions | C+M          | Area array | 1.4-12 MPixels  | VIS               | Digital I/O,<br>Ethernet,<br>GigE, USB3          | 7-163  | —   |
| Chameleon3   | CCD &<br>CMOS<br>versions | C+M          | Area array | 1.3-2.8 MPixels | VIS               | Digital I/O,<br>USB3                             | 13-149   | —   |
| Bumblebee2   | CCD                       | C+M          | Area array | 0.3-0.8 MPixels | VIS               | Digital I/O,<br>FireWire                         | 20-48  | —   |
| Ladybug5+  | CCD                       | C            | Area array | 30 MPixels      | VIS               | Digital I/O,<br>USB3                             | 10 (com-<br>pressed),<br>5 (uncom-<br>pressed) | —   |
| FLIR Systems Inc / 米フリアーシステムズ社; <a href="http://www.flir.com">www.flir.com</a>   |                           |              |            |                 |                   |  |  |   |
| A310   | Microbolometer            | M            | Area array | 320 × 240       | LWIR              | Ethernet,<br>NTSC/PAL/<br>RS-170,<br>PAL, RS-170 | 30   | 30 Hz                                       |
| A315   | Microbolometer            | M            | Area array | 320 × 240       | LWIR              | GigE   | 60   | 60 Hz                                       |
| A615   | Microbolometer            | M            | Area array | 640 × 512       | LWIR              | GigE   | 50   | 50-200<br>Hz                                |
| A65  | Microbolometer            | M            | Area array | 640 × 512       | LWIR              | GigE   | 30   | 30 Hz                                       |
| A8300sc  | InSb                      | M            | Area array | 1280 × 720      | MWIR              | CoaXPRESS,<br>GigE, HD-SDI                       | 60   | 60 Hz<br>(full), 388<br>Hz (@1/4<br>window) |
| A6750sc InSb   | InSb                      | M            | Area array | 640 × 512       | MWIR              | GigE, NTSC                                       | 125  | 125 Hz<br>(full),<br>4175 Hz<br>(max)       |
| A6260sc  | InGaAs                    | M            | Area array | 640 × 480       | SWIR              | GigE, NTSC                                       | 125  | 125 Hz<br>(full),<br>25,614<br>Hz (max)     |

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|--|--------|---------------|------------|-------------|-----------------------|---|------------|--|
| A6600  | InSb   | M             | Area array | 640 × 512   | MWIR                  | GigE  | 60         | 60-125<br>Hz (full),<br>4175 Hz<br>(max) |
| Hamamatsu Corp / 浜松ホトニクス システム営業推進部 053-431-0150; www.hamamatsu.com sales@sys.hpk.co.jp |        |               |            |             |                       |   |            |  |
| ORCA-Fusion BT デジタル<br>CMOSカメラ<br>C15440-20UP  | CMOS   | M             | Area array | 2304 x 2304 | VIS                   | CoaXPress<br>(Dual CXP-6)/<br>USB 3.0   | 89(full)   | —  |
| ORCA-Fusion デジタル<br>CMOSカメラ<br>C14440-20UP   | CMOS   | M             | Area array | 2304 x 2304 | VIS                   | CoaXPress<br>(Dual CXP-6)/<br>USB 3.0   | 89(full)   | —  |
| ORCA-Flash4.0 V3 デジタル<br>CMOSカメラ C13440-<br>20CU                                       | CMOS   | M             | Area array | 2048 x 2048 | VIS                   | Camera Link<br>full configura-<br>tion Deca<br>mode,<br>USB 3.0   | 100(full)  | —  |
| 科学計測用CMOSボード型カ<br>メラ C11440-52U30  | CMOS   | M             | Area array | 2048 x 2048 | VIS                   | USB 3.0   | 30(full)   | —  |
| TDIボード型カメラ<br>C10000-A01   | CCD    | M             | TDI        | 2048 x 128  | NIR,UV,VIS            | Camera Link<br>Base<br>Configuration  | —          | 0.45-<br>50kHz                           |
| X線sCMOSカメラ C12849-<br>111U   | CMOS   | M             | Area array | 2048 x 2048 | X-ray                 | USB 3.0   | 30(full)   | —  |
| X線TDIカメラ C12300-<br>321  | CCD    | M             | TDI        | 4608 x 150  | X-ray                 | Camera Link<br>Base<br>Configuration  | —          | 20kHz<br>max.                            |
| X線ラインセンサカメラ<br>C14300シリーズ  | CCD    | M             | Line scan  | —           | X-ray                 | USB 3.0   | —          | 8.3 kHz<br>max.                          |
| デュアルエナジー X線ラインセ<br>ンサカメラ C11800シリーズ  | CCD    | M             | Line scan  | —           | X-ray                 | USB 3.0   | —          | —  |
| Headwall Photonics Inc / 米ヘッドウォール・フォトニクス社; www.headwallphotonics.com                   |        |               |            |             |                       |   |            |  |
| Hyperspec MV imaging<br>sensor   | CMOS   | C+M           | Line scan  | —           | Multispectral,<br>NIR | Ethernet  | 400 (full) | —  |
| Hikrobot Machine Vision / 米ハイクロロボット・マシン・ビジョン社; www.hikrobotics.com                     |        |               |            |             |                       |   |            |  |
| CA Series  | —      | C+M           | Area array | —           | IR, NIR               | Digital I/O,<br>GigE, USB3  | 17-814     | 1-3.5<br>Gbps                            |
| CE Series  | —      | C+M           | Area array | —           | IR, NIR               | Digital I/O,<br>GigE  | 5.5-120    | 1 Gbps                                   |
| CH Series  | —      | C+M           | Area array | —           | IR                    | Camera Link,<br>Camera Link<br>Extended-Full,<br>Camera Link<br>Extended,<br>Camera Link<br>Full, Digital I/<br>O, 10 GigE,<br>GigE, RS-232 | 4-68       | 1-6.5<br>Gbps                            |
| Line Scan Camera Series  | CMOS   | C+M           | Line scan  | —           | IR, NIR               | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full, GigE                                     | —          | 1-51,<br>1-26<br>kHz                     |



| 製品   | センサタイプ | カラー /<br>モノクロ | カメラタイプ     | 解像度                         | 波長                              | インタフェース                                      | フレームレート | データ<br>レート   |
|--|--------|---------------|------------|-----------------------------|---------------------------------|--|---------|--------------|
| X86 Smart Camera   | CMOS   | M             | Area array | —                           | IR, NIR                         | Digital I/O,<br>GigE, RS-232,<br>USB 1.0/2.0 | 25-80   | 1 Gbps       |
| Movidius VPU Platform<br>Smart Camera  | CMOS   | M             | Area array | —                           | IR, NIR                         | Digital I/O,<br>GigE, RS-232                 | 40-120  | 1 Gbps       |
| HinaLea Imaging / 米ヒナリア・イメージング社; www.hinaleaimaging.com                                |        |               |            |                             |                                 |  |         |              |
| HinaLea Imaging Model<br>4100H   | CMOS   | C             | Area array | —                           | Hyperspectral,<br>Multispectral | GigE, USB3                                   | —       | —            |
| HinaLea Imaging Model<br>4200  | CMOS   | C             | Area array | —                           | Hyperspectral,<br>Multispectral | GigE, USB3                                   | —       | —            |
| 4200m  | CMOS   |               | Area array | —                           | Hyperspectral,<br>NIR, VIS      | —  | —       | —            |
| Hitachi Kokusai Electric America Ltd / 日立国際電気アメリカ社; www.hitachikokusai.com/ivs         |        |               |            |                             |                                 |  |         |              |
| HV-F130GV,<br>HV-F130SCL   | CCD    | C             | Area array | 1280 × 960                  | VIS                             | Camera Link,<br>GigE, RGB                    | 30      | 60 Hz        |
| KP-FM(D)500WCL   | CMOS   | C+M           | Area array | 2464 × 2056                 | VIS                             | Camera Link                                  | 45      | 50, 60<br>Hz |
| KP-FM(D)200UB  | CMOS   | C+M           | Area array | 1600 × 1200                 | VIS                             | USB3   | 60      | 50, 60<br>Hz |
| KP-F230SCL,<br>KP-F230PCL  | CCD    | M             | Area array | 1628 × 1236                 | VIS                             | Camera Link                                  | 30      | —            |
| KP-HD20A,<br>KP-HD20A-S2   | CMOS   | C             | Area array | 1920 × 1080                 | VIS                             | Analog,<br>HD-SDI                            | 30, 60  | 50,<br>60 Hz |
| KP-F31 PCL, KP-FR31 PCL  | CCD    | C+M           | Area array | 659 × 494                   | VIS                             | Camera Link                                  | 120     | 60 Hz        |
| HV-F203GV,<br>HV-F203SCL   | CCD    | C             | Area array | 1280 × 960                  | VIS                             | Camera Link,<br>GigE                         | 30      | 60 Hz        |
| HV-F32SCL  | CCD    | C             | Area array | 660 × 494                   | VIS                             | Camera Link                                  | 200     | 60 Hz        |
| KP-D20A, KP-D20B   | CCD    | C             | Area array | 768 × 494                   | VIS                             | Analog,<br>S-Video                           | 30      | 60 Hz        |
| KP-F32WCL,<br>KP-FD32WCL   | CCD    | C+M           | Area array | 659 × 494                   | VIS                             | Camera Link                                  | 200     | 60 Hz        |
| Hitachi Kokusai Electric Europe GmbH / 日立国際電気ヨーロッパ社; www.hitachi-keu.com               |        |               |            |                             |                                 |  |         |              |
| HV-F203 Series   | CCD    | C             | Area array | —                           | VIS                             | Camera Link,<br>GigE, RGB                    | 30      | —            |
| HV-F130 Series   | CCD    | C             | Area array | SXGA                        | VIS                             | Camera Link,<br>GigE, RGB                    | 30      | —            |
| HV-F32 Series  | CCD    | C             | Area array | VGA                         | VIS                             | Camera Link,<br>GigE, RGB                    | ≤200    | —            |
| KP-FM(D)200UB  | CMOS   | C+M           | Area array | —                           | NIR, VIS                        | Camera Link,<br>USB3                         | 125     | —            |
| KP-HD20A-S2  | CMOS   | C             | Area array | 1920 × 1080                 | —                               | HD-SDI, HDTV                                 | 50      | —            |
| IDS Imaging Development Systems GmbH / 独IDSイメージング・デベロップメント・システムズ社; www.ids-imaging.com |        |               |            |                             |                                 |  |         |              |
| IDS NXT rio & rome   | CMOS   | C+M           | Area array | 1456 × 1088                 | —                               | Digital I/O,<br>Ethernet,<br>GigE, RS-232    | —       | —            |
| Ensenso X camera family  | CMOS   | M             | Area array | 1280 × 1024,<br>2448 × 2048 | VIS                             | Digital I/O,<br>GigE                         | —       | —            |
| Ensenso N camera family  | CMOS   | M             | Area array | 752 × 480-<br>1280 × 1024   | VIS                             | Digital I/O,<br>GigE, USB<br>1.0/2.0         | —       | —            |
| GigE uEye CP Rev. 2  | CMOS   | C+M           | Area array | 752 × 480-<br>3088 × 2076   | NIR, VIS                        | Digital I/O,<br>GigE                         | ≤205    | —            |
| USB 3 uEye CP<br>camera family   | CMOS   | C+M           | Area array | 752 × 480-<br>4912 × 3684   | NIR, VIS                        | Digital I/O,<br>USB3                         | ≤575    | —            |
| uEye LE USB 3.1 Gen 1  | CMOS   | C+M           | Area array | 808 × 608-<br>3088 × 2076   | VIS                             | Digital I/O,<br>USB3                         | ≤135    | —            |
| GigE uEye FA<br>camera family  | CMOS   | C+M           | Area array | 800 × 600-<br>2448 × 2048   | VIS                             | Digital I/O,<br>GigE                         | ≤205    | —            |
| USB 3 uEye LE<br>camera family   | CMOS   | C+M           | Area array | 1280 × 1024-<br>4912 × 3684 | NIR, VIS                        | Digital I/O,<br>USB3                         | ≤60     | —            |

| 製品   | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度                         | 波長       | インターフェース                                   | フレームレート    | データ<br>レート   |
|--|--------|--------------|------------|-----------------------------|----------|--|------------|--------------|
| GigE uEye SE camera family                             | CMOS   | C+M          | Area array | 800 × 600-<br>4104 × 3006   | NIR, VIS | Digital I/O,<br>GigE                       | ≤205       | —            |
| uEye SE USB 3.1 Gen 1                                  | CMOS   | C+M          | Area array | 2456 × 2054-<br>4104 × 3006 | VIS      | ital I/O, USB3                             | —          | —            |
| GigE uEye LE camera family                             | CMOS   | C+M          | Area array | 1280 × 1024-<br>2560 × 1920 | NIR, VIS | Digital I/O,<br>GigE                       | ≤50        | —            |
| SB 3 uEye ML camera family                             | CMOS   | C+M          | Area array | 1280 × 1024-<br>2560 × 1920 | NIR, VIS | Digital I/O,<br>USB3                       | ≤60        | —            |
| USB 2 uEye SE camera family                            | CMOS   | C+M          | Area array | 752 × 480-<br>3840 × 2748   | NIR, VIS | Digital I/O,<br>USB 1.0/2.0                | ≤87        | —            |
| USB 2 uEye LE camera family                            | CMOS   | C+M          | Area array | 752 × 480-<br>3840 × 2748   | NIR, VIS | Digital I/O,<br>USB 1.0/2.0                | ≤87        | —            |
| illunis LLC / 米イルニス社; www.illunis.com                  |        |              |            |                             |          |  |            |              |
| CMV-120  | CMOS   | C+M          | Area array | 13272 × 9176                | VIS      | Camera Link<br>Full                        | 5.49       | —            |
| CMV-50   | CMOS   | C+M          | Area array | 7920 × 6004                 | VIS      | Camera Link,<br>Fiber optic,<br>GigE, USB3 | 30         | —            |
| RMOD-71  | CMOS   | C+M          | Area array | 10,000 × 7096               | VIS      | Camera Link,<br>USB3                       | 2, 3, 4, 2 | —            |
| RMOD-71-TEC  | CMOS   | C+M          | Area array | 10,000 × 7096               | VIS      | Camera Link                                | 2, 3, 4, 2 | —            |
| RMV-47   | CCD    | C+M          | Area array | 8856 × 5280                 | VIS      | Camera Link                                | 3.5        | —            |
| RMV-29050  | CCD    | C+M          | Area array | 6576 × 4384                 | VIS      | Camera Link,<br>GigE, USB3                 | 1, 2, 4    | —            |
| RMV-16070  | CCD    | C+M          | Area array | 4864 × 3232                 | VIS      | Camera Link,<br>GigE, USB3                 | 2, 4, 8    | —            |
| RMV-16050  | CCD    | C+M          | Area array | 4896 × 3264                 | VIS      | Camera Link,<br>GigE, USB3                 | 2, 4, 8    | —            |
| CLS-16k-55klps   | CMOS   | M            | Line scan  | 16,000                      | VIS      | Camera Link<br>Full                        | —          | 55 klps      |
| IMI Technology Co Ltd / 韓国IMIテクノロジー社; www.imi-tech.com |        |              |            |                             |          |  |            |              |
| IMx-11FT   | CCD    | C+M          | Area array | 640 × 480                   | VIS      | FireWire                                   | 86         | 400<br>Mbps  |
| IMx-3145FT   | CCD    | C+M          | Area array | 1392 × 1040                 | VIS      | FireWire                                   | 20         | 400<br>Mbps  |
| IMx-5040FT   | CCD    | C+M          | Area array | 640 × 480                   | VIS      | FireWire                                   | 86         | 400<br>Mbps  |
| IMx-4050FT   | CCD    | C+M          | Area array | 2448 × 2048                 | VIS      | FireWire                                   | 15         | 800<br>Mbps  |
| IMx-710G   | CCD    | C+M          | Area array | 656 × 488                   | VIS      | GigE                                       | 100        | 1000<br>Mbps |
| IMx-711G   | CCD    | C+M          | Area array | 656 × 488                   | VIS      | GigE                                       | 86         | 1000<br>Mbps |
| IMx-715G   | CCD    | C+M          | Area array | 1032 × 776                  | VIS      | GigE                                       | 35         | 1000<br>Mbps |
| IMx-750GC  | CMOS   | C+M          | Area array | 2588 × 1940                 | VIS      | GigE                                       | 14         | 1000<br>Mbps |
| IMC-770GC  | CMOS   | C            | Area array | 3660 × 2774                 | VIS      | GigE                                       | 7.3        | 1 Gbps       |
| IMC-7015G2   | CCD    | C            | Area array | 1280 × 720                  | VIS      | GigE                                       | 30         | 1 Gbps       |
| IMPERX / 米インパーエックス社; www.imperx.com                    |        |              |            |                             |          |  |            |              |
| IP67 9 Meg CMOS<br>C4010 Cheetah Camera                | CMOS   | C+M          | Area array | —                           | NIR      | GigE                                       | 6.6-13.2   | —            |
| IP67 3 Meg CMOS<br>C2010 Cheetah Camera                | CMOS   | C+M          | Area array | —                           | NIR      | GigE                                       | 18-36      | —            |
| IP67 5 Meg CMOS<br>C2410 Cheetah Camera                | CMOS   | C+M          | Area array | —                           | NIR      | GigE                                       | 11-22      | —            |
| IP67 7.1 Meg CMOS<br>C3210 Cheetah Camera              | CMOS   | C+M          | Area array | —                           | NIR      | GigE                                       | 8-16       | —            |
| IP67 12 Meg CMOS<br>C4110 Cheetah Camera               | CMOS   | C+M          | Area array | —                           | NIR      | GigE                                       | 4.8-9.6    | —            |

| 製品  | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度   | 波長               | インタフェース   | フレームレート               | データ<br>レート      |
|---|--------|--------------|------------|---|------------------|---|-----------------------|-----------------|
| 25 Meg CMOS C5180<br>Cheetah Camera                               | CMOS   | C+M          | Area array | —   | NIR              | Camera Link,<br>CoaXPress,<br>10 GigE,<br>GigE, USB3                        | 2.2-44                | —               |
| 2 Meg SDI CMOS C1920<br>Cheetah Camera                            | CMOS   | C+M          | Area array | —   | NIR              | HD-SDI  | 23.98-60              | —               |
| 5 Meg CMOS C2420YZ<br>Cheetah Camera with<br>Polarization Filters | CMOS   | C+M          | Area array | —   | NIR              | Camera Link   | 67-97                 | —               |
| InfraTec GmbH / 独インフラテック社; www.infratec.de                        |        |              |            |   |                  |   |                       |                 |
| Cooled high-end infrared<br>camera ImagerR 9300                   | FPA    | —            | Area array | 1280 × 1024   | MWIR             | Camera Link,<br>Digital I/O, 10<br>GigE, GigE,<br>HDMI,<br>RS-232           | —                     | 106-<br>3200 Hz |
| Infrared camera ImagerR<br>8300 hp series                         | FPA    | —            | Area array | 640 × 512,<br>1280 × 1024                               | MWIR             | Camera Link,<br>10 GigE,<br>GigE, HDMI                                      | —                     | 355-<br>5000 Hz |
| VarioCAM HD uncooled<br>infrared camera                           | FPA    | —            | Area array | 640 × 480,<br>1024 × 768,<br>1280 × 960,<br>2048 × 1536 | IR, LWIR         | Analog,<br>Digital I/O,<br>DVI, GigE,<br>RS-232,<br>S-Video, USB<br>1.0/2.0 | —                     | 30-240<br>Hz    |
| VarioCAM HD head<br>stationary infrared camera                    | FPA    | —            | Area array | 640 × 480,<br>1024 × 768,<br>1280 × 960,<br>2048 × 1536 | IR, LWIR,<br>VIS | Analog,<br>Digital I/O,<br>DVI, GigE,<br>RS-232,<br>S-Video, USB<br>1.0/2.0 | —                     | 30-240<br>Hz    |
| Infrared camera series<br>VarioCAM HDx head                       | FPA    | —            | Area array | 640 × 480   | IR, LWIR         | Analog, DVI,<br>GigE, RS-232  | —                     | 50, 60<br>Hz    |
| High-end cameras<br>ImagerR 8300/9300 Z                           | InSb   | —            | Area array | 640 × 512,<br>1280 × 1024                               | MWIR             | GigE, RS-232,<br>USB 1.0/2.0  | —                     | ≤ 100 Hz        |
| Cooled long-wave infrared<br>camera series ImagerR                | FPA    | —            | Area array | 640 × 512   | LWIR             | 10 GigE,<br>GigE, RS-232,<br>USB 1.0/2.0                                    | —                     | 105,000<br>Hz   |
| Full HD infrared camera<br>ImagerR 10300                          | InSb   | —            | Area array | 1920 × 1536   | LWIR             | 10 GigE,<br>GigE, HDMI  | —                     | 113-400<br>Hz   |
| ImagerR 9400 hp   | InSb   | —            | Area array | 2560 × 2048   | LWIR             | Camera Link,<br>10 GigE,<br>GigE, HDMI                                      | —                     | 622 Hz          |
| IO Industries Inc / 加アイオーインダストリーズ社; www.ioindustries.com          |        |              |            |   |                  |   |                       |                 |
| Flare 48MP  | CMOS   | C+M          | Area array | 7920 × 6004   | VIS              | CoaXPress   | 30                    | —               |
| Victorem 120B68   | CMOS   | C+M          | Area array | 4112 × 3008   | VIS              | CoaXPress   | 68                    | —               |
| Victorem 4KSDI-Mini   | CMOS   | C            | Area array | 4096 × 2160   | VIS              | HD-SDI  | 60                    | —               |
| Flare 12MP  | CMOS   | C+M          | Area array | 4096 × 3072   | NIR, VIS         | Camera Link,<br>CoaXPress   | 125 (CL),<br>180 (CX) | —               |
| Victorem 205R26   | CMOS   | C+M          | Area array | 5496 × 3672   | VIS              | CoaXPress   | 26                    | —               |
| Victorem 51B163   | CMOS   | C+M          | Area array | 2464 × 2056   | VIS              | CoaXPress   | 163                   | —               |
| Victorem 4B523  | CMOS   | C+M          | Area array | 728 × 544   | VIS              | CoaXPress   | 523                   | —               |
| Victorem 2KSDI-Mini   | CMOS   | C            | Area array | 2048 × 1080   | VIS              | HD-SDI  | 60                    | —               |
| Victorem 262G41   | CMOS   | C+M          | Area array | 5120 × 5120   | VIS              | CoaXPress   | 41                    | —               |
| Victorem 89B93-CX   | CMOS   | C+M          | Area array | 5496 × 3672   | VIS              | CoaXPress   | 26                    | —               |
| ISVI Corp / 韓国ISVI社; www.isvi-corp.com                            |        |              |            |   |                  |   |                       |                 |
| IC-M12S-CXP   | CMOS   | M            | Area array | 4096 × 3072   | NIR, VIS         | CoaXPress   | 181                   | 6.25<br>Gbps    |

| 製品                                 | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度         | 波長                         | インターフェース   | フレームレート | データ<br>レート   |
|------------------------------------|--------|--------------|------------|-------------|----------------------------|--|---------|--------------|
| IC-X25S-CXP                        | CMOS   | C+M          | Area array | 5120 × 5120 | NIR, VIS                   | CoaXPress  | 72      | 6.25<br>Gbps |
| IC-M29S-CL                         | CCD    | M            | Area array | 6576 × 4384 | VIS                        | Camera Link  | 4.5     | 80 MHz       |
| IC-X25N-CL                         | CMOS   | C+M          | Area array | 5056 × 5056 | NIR, VIS                   | Camera Link  | 30      | 80 MHz       |
| JADAK / 米ジャダック社; www.jadaktech.com |        |              |            |             |                            |  |         |              |
| Allegro LW-AL-CMV2000              | CMOS   | C+M          | Area array | 2048 × 1024 | NIR, VIS                   | GigE, USB3   | 300     | —            |
| Allegro LW-AL-CMV4000              | CMOS   | C+M          | Area array | 2048 × 2048 | NIR, VIS                   | GigE, USB3   | 150     | —            |
| Allegro LW-AL-CMV12000             | CMOS   | C+M          | Area array | 4096 × 3072 | NIR, VIS                   | GigE, USB3   | 50      | —            |
| Allegro LW-AL-IMX172               | CMOS   | C+M          | Area array | 4000 × 3000 | VIS                        | GigE, USB3   | 35      | —            |
| Allegro LW-AL-IMX178               | CMOS   | C+M          | Area array | 3094 × 2080 | VIS                        | GigE, USB3   | 60      | —            |
| Allegro LW-AL-IMX249               | CMOS   | C+M          | Area array | 1920 × 1200 | VIS                        | GigE, USB3   | 30      | —            |
| Allegro LW-AL-IMX250               | CMOS   | C+M          | Area array | 2448 × 2048 | VIS                        | GigE, USB3   | 144     | —            |
| Allegro LW-AL-IMX253               | CMOS   | C+M          | Area array | 4096 × 3000 | VIS                        | GigE, USB3   | 64      | —            |
| Allegro LW-AL-IMX255               | CMOS   | C+M          | Area array | 4096 × 2160 | VIS                        | GigE, USB3   | 89      | —            |
| JAI / 米JAI社; www.jai.com           |        |              |            |             |                            |  |         |              |
| SP-20000                           | CMOS   | C+M          | Area array | 5120 × 3840 | VIS                        | Camera Link,<br>Camera Link<br>Full,<br>CoaXPress,<br>USB3       | 30      | —            |
| SP-12400/SP-12401                  | CMOS   | C+M          | Area array | 4112 × 3008 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Full, GigE,<br>USB3               | 9-64    | —            |
| SP-12000-CXP4                      | CMOS   | C+M          | Area array | 4096 × 3072 | NIR, VIS                   | CoaXPress  | 189     | —            |
| SP-5000                            | CMOS   | C+M          | Area array | 2560 × 2048 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Full,<br>CoaXPress,<br>GigE, USB3 | ≤250    | —            |
| GO-5100                            | CMOS   | C+M          | Area array | 2462 × 2056 | NIR, VIS                   | GigE, USB3   | 22-74   | —            |
| GO-5101                            | CMOS   | C+M          | Area array | 2464 × 2056 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Extended,<br>GigE                 | 22-35   | —            |
| GO-5000                            | CMOS   | C+M          | Area array | 2560 × 2048 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Extended,<br>GigE, USB3           | ≤107    | —            |
| GO-2400                            | CMOS   | C+M          | —          | 1936 × 1216 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Full,<br>GigE, USB3               | 48-165  | —            |
| GO-2401                            | CMOS   | C+M          | Area array | 1936 × 1216 | VIS                        | GigE   | 41      | —            |
| GO-5100MP-USB                      | CMOS   | M            | Area array | 2464 × 2056 | VIS                        | USB3   | 74      | —            |
| AP-3200T                           | CMOS   | C            | Area array | 2064 × 1544 | VIS                        | Camera Link,<br>Camera Link<br>Full,<br>GigE, USB3               | 12-55   | —            |
| AP-1600T                           | CMOS   | C            | Area array | 1456 × 1088 | VIS                        | Camera Link,<br>Camera Link<br>Full,<br>GigE, USB3               | 24-126  | —            |
| AD-130                             | CCD    | C+M          | Area array | 1296 × 966  | Multispectral,<br>NIR, VIS | GigE   | 31      | —            |

| 製品   | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度         | 波長       | インタフェース   | フレームレート                  | データ<br>レート |
|--|--------|--------------|------------|-------------|----------|---|--------------------------|------------|
| SW-4000T-MCL   | CMOS   | C            | Line scan  | 3 × 4096    | VIS      | Camera Link,<br>Camera Link<br>Full   | —                        | 67 kHz     |
| SW-4000TL-PMCL   | CMOS   | C            | Line scan  | 3 × 4096    | VIS      | Camera Link,<br>Camera Link<br>Full   | —                        | 66 kHz     |
| SW-4000M-PMCL  | CMOS   | M            | Line scan  | 4096        | NIR, VIS | Camera Link,<br>Camera Link<br>Full   | —                        | 200 kHz    |
| SW-8000M-PMCL  | CMOS   | M            | Line scan  | 8192        | NIR, VIS | Camera Link,<br>Camera Link<br>Full   | —                        | 100 kHz    |
| SW-4000T-10GE  | CMOS   | C            | Line scan  | 4096        | VIS      | 10 GigE,<br>5 GigE, GigE  | —                        | 97 kHz     |
| SW-4000Q-10GE  | CMOS   | C+M          | Line scan  | 4096        | NIR, VIS | 10 GigE,<br>5 GigE, GigE  | —                        | 72 kHz     |
| KAYA Instruments / イスラエル KAYA Instruments 社; www.kayainstruments.com |        |              |            |             |          |   |                          |            |
| JetCam 19  | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>Fiber optic,<br>10 GigE,<br>Proprietary | 1920-2400                | —          |
| JetCam 160   | CMOS   | C+M          | —          | —           | —        | CoaXPress,<br>Fiber optic,<br>10 GigE                                       | ≥300 (full),<br>500 (4K) | —          |
| JetCam 25  | CMOS   | C+M          | —          | —           | —        | CoaXPress,<br>Fiber optic,<br>10 GigE                                       | 80                       | —          |
| Iron 250 CoaXPress<br>12G Camera                                     | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>Fiber optic,<br>10 GigE,<br>HD-SDI      | 163.4                    | —          |
| Iron 255 CoaXPress<br>12G Camera                                     | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>10 GigE                                 | 93                       | —          |
| Iron 253 CLHS/<br>10 GiGE Camera                                     | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>Fiber optic,<br>10 GigE,<br>HD-SDI      | 68                       | —          |
| Iron 305 CoaXPress 12G<br>Camera                                     | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>Fiber optic,<br>10 GigE,<br>HD-SDI      | 63.7                     | —          |
| Iron 252 CoaXPress 12G<br>Camera                                     | CMOS   | C+M          | —          | —           | —        | Camera Link<br>HS,<br>CoaXPress,<br>Fiber optic,<br>10 GigE                 | 216.2                    | —          |
| KEYENCE Corp of America / 米キーエンス社; www.keyence.com/usa               |        |              |            |             |          |   |                          |            |
| CA-H048CX/MX   | CMOS   | C+M          | Area array | 784 × 596   | VIS      | Proprietary   | ≤588                     | —          |
| CA-H200CX/MX   | CMOS   | C+M          | Area array | 1600 × 1200 | VIS      | Proprietary   | 86.2                     | —          |

| 製品   | センサタイプ                    | カラー/<br>モノクロ | カメラタイプ     | 解像度                         | 波長           | インタフェース  | フレームレート    | データ<br>レート |
|--|---------------------------|--------------|------------|-----------------------------|--------------|--|------------|------------|
| CA-H500CX/MX   | CMOS                      | C+M          | Area array | 2432 × 2040                 | VIS          | Proprietary  | 36         | —          |
| CA-035C/M  | CMOS                      | C+M          | Area array | 640 × 480,<br>512 × 480     | VIS          | Proprietary  | —          | —          |
| CA-H2100C/M  | CMOS                      | C+M          | Area array | 5104 × 4092                 | VIS          | Proprietary  | 9          | —          |
| CA-HS035C/M  | CCD                       | C+M          | Area array | 640 × 480                   | VIS          | Proprietary  | 62.5       | —          |
| CA-HS200C/M  | CCD                       | C+M          | Area array | 1600 × 1200                 | VIS          | Proprietary  | 17         | —          |
| CA-HL02MX  | CMOS                      | M            | Line scan  | 1 × 2048                    | VIS          | Proprietary  | —          | 41.7 kHz   |
| CA-HL04MX  | CMOS                      | M            | Line scan  | 1 × 4096                    | VIS          | Proprietary  | —          | 41.7 kHz   |
| CA-HL08MX  | CMOS                      | M            | Line scan  | 1 × 8192                    | VIS          | Proprietary  | —          | 22.2 kHz   |
| Lambert Instruments BV / 蘭ランベルトインスツルメンツ社; www.lambertinstruments.com |                           |              |            |                             |              |  |            |            |
| HS540 Series   | CMOS                      | M            | Area array | —                           | VIS          | CoaXPress,<br>Ethernet                                   | 540        | —          |
| HiCAM  | I-CMOS                    | M            | Area array | —                           | NIR, UV, VIS | Ethernet, USB<br>1.0/2.0                                 | —          | —          |
| TRiCAM   | I-CCD                     | M            | Area array | —                           | NIR, UV, VIS | USB 1.0/2.0  | 15         | —          |
| HiCAM Fluo   | I-CMOS                    | M            | Area array | —                           | NIR, UV, VIS | CoaXPress,<br>USB 1.0/2.0                                | 540 (full) | —          |
| LIPS Corp / 台湾LIPS社; www.lips-hci.com                                |                           |              |            |                             |              |  |            |            |
| LIPSedge AE400   | 3D                        | C            | Area array | —                           | IR, VIS      | Ethernet, GigE   | 30         | —          |
| LUCID Vision Labs Inc / 加LUCID Vision Labs社; www.thinklucid.com      |                           |              |            |                             |              |  |            |            |
| Helios ToF 3D camera   | Time of<br>Flight         | M            | Area array | 640 × 480                   | —            | GigE   | 30         | —          |
| Atlas 5GBASE-T camera<br>5 MP to 31.4 MP                             | CMOS                      | C+M          | Area array | ≤6464 × 4852                | NIR          | Ethernet,<br>5 GigE                                      | ≤173       | —          |
| Helios Embedded ToF<br>Module  | 3D                        | M            | Area array | 640 × 480                   | —            | GigE   | 30         | —          |
| Phoenix Camera   | CMOS                      | C+M          | Area array | —                           | NIR, VIS     | GigE   | ≤291       | —          |
| Triton Camera  | CMOS                      | C+M          | Area array | —                           | NIR, VIS     | GigE   | ≤291       | —          |
| Triton Polarization  | CMOS                      | C+M          | Area array | 2448 × 2048                 | —            | GigE   | 24         | —          |
| Phoenix Polarization<br>Camera                                       | CMOS                      | C+M          | Area array | 2448 × 2048                 | —            | GigE   | 24         | —          |
| MATRIX VISION GmbH / 独マトリックス・ビジョン社; www.matrix-vision.com            |                           |              |            |                             |              |  |            |            |
| mvBlueGEMINI   | CMOS                      | C+M          | Area array | 1280 × 1024                 | VIS          | Digital I/O,<br>Ethernet,<br>RS-232                      | 60         | —          |
| mvBlueLYNX-X series  | —                         | C+M          | Area array | 640 × 480-<br>2448 × 2050   | VIS          | Digital I/O,<br>Ethernet,<br>RGB, RS-232,<br>USB 1.0/2.0 | 10-117     | —          |
| mvBlueCOUGAR-XD series   | —                         | C+M          | Area array | 1456 × 1088-<br>6480 × 4856 | NIR, VIS     | Digital I/O,<br>GigE                                     | 7.5-149.9  | —          |
| mvBlueCOUGAR-X series  | —                         | C+M          | Area array | 728 × 544-<br>5544 × 3692   | NIR, UV, VIS | Digital I/O,<br>GigE, RS-232                             | 5.8-299.8  | —          |
| mvBlueFOX3 series  | CMOS                      | C+M          | Area array | 728 × 544-<br>5544 × 3692   | NIR          | Digital I/O,<br>USB3                                     | 18.5-436.9 | —          |
| mvBlueFOX series   | —                         | C+M          | Area array | 640 × 480-<br>2592 × 1944   | VIS          | Digital I/O,<br>USB 1.0/2.0                              | 5.8-100    | —          |
| mvBlueFOX-MLC series   | CMOS                      | C+M          | Area array | 752 × 480-<br>2592 × 1944   | VIS          | Digital I/O,<br>USB 1.0/2.0                              | 5.8-93     | —          |
| mvBlueFOX-IGC series   | CMOS                      | C+M          | Area array | 752 × 480-<br>2592 × 1944   | VIS          | Digital I/O,<br>USB 1.0/2.0                              | 5.8-93     | —          |
| mvBlueFOX3 board-level<br>series                                     | CMOS                      | C+M          | Area array | 728 × 544-<br>5544 × 3692   | NIR, VIS     | Digital I/O,<br>USB3                                     | 18.5-436.9 | —          |
| mvBlueFOX3-3M series   | CCD &<br>CMOS<br>versions | C+M          | Area array | 3096 × 2080                 | —            | Digital I/O,<br>USB 1.0/2.0,<br>USB3                     | 59         | —          |

| 製品   | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度   | 波長           | インタフェース  | フレームレート           | データ<br>レート |
|--|--------|--------------|------------|---|--------------|--|-------------------|------------|
| Matrox Imaging / 加マトロックス・イメージング社; www.matrox.com/imaging |        |              |            |   |              |  |                   |            |
| Iris GTR 300 C   | CMOS   | C            | Area array | 640 × 480   | VIS          | Ethernet, GigE   | 147               | —          |
| Iris GTR 1300  | CMOS   | M            | Area array | 1280 × 1024   | VIS          | Ethernet, GigE   | 85                | —          |
| Iris GTR 1300 C  | CMOS   | C            | Area array | 1280 × 1024   | VIS          | Ethernet, GigE   | 35                | —          |
| Iris GTR 2000  | CMOS   | M            | Area array | 1920 × 1200   | VIS          | Ethernet, GigE   | 45                | —          |
| Iris GTR 2000 C  | CMOS   | C            | Area array | 1920 × 1200   | VIS          | Ethernet, GigE   | 20                | —          |
| Iris GTR 5000  | CMOS   | M            | Area array | 2592 × 2048   | VIS          | Ethernet, GigE   | 21                | —          |
| Iris GTR 5000 C  | CMOS   | C            | Area array | 2592 × 2048   | VIS          | Ethernet, GigE   | 8.5               | —          |
| Mega Speed Corp / 加メガスピード社; www.megaspeedusa.com         |        |              |            |   |              |  |                   |            |
| Mega Speed MS110K  | CMOS   | C+M          | Area array | 1920 × 1080-<br>64 × 16                               | VIS          | GigE   | 35-225,000        | —          |
| Mega Speed X4 PRO  | CMOS   | C+M          | Area array | —   | VIS          | GigE   | ≥40,000           | —          |
| Mega Speed MS35K<br>PRO Cart                             | CMOS   | C+M          | Area array | —   | VIS          | GigE   | —                 | —          |
| Mega Speed X9 PRO  | CMOS   | C+M          | Area array | —   | VIS          | GigE   | ≥100,000          | —          |
| Mega Speed 35K<br>PRO LED                                | CMOS   | C+M          | Area array | 1280 × 1024   | VIS          | GigE   | ≥2000             | —          |
| Mega Speed X8 PRO  | CMOS   | C+M          | Area array | 1280 × 800  | VIS          | GigE   | 4000              | —          |
| Mightex Systems / 加Mightex Systems社; www.mightex.com     |        |              |            |   |              |  |                   |            |
| SME-C050-U   | CMOS   | C            | Area array | 2592 × 1944   | NIR, VIS     | USB 1.0/2.0,<br>USB3   | 14, 350<br>(ROI)  | 5 Gbps     |
| BCE-C050-U   | CMOS   | C            | Area array | 2592 × 1944   | NIR, VIS     | USB 1.0/2.0  | 6-100             | —          |
| BCE-C030-U   | CMOS   | C            | Area array | 2048 × 1536   | NIR, VIS     | USB 1.0/2.0  | 8-140             | —          |
| BCE-B013-U   | CMOS   | M            | Area array | 1280 × 1024   | NIR, VIS     | USB 1.0/2.0  | 25                | —          |
| BCE-CG04-U   | CMOS   | C            | Area array | 752 × 480   | NIR, VIS     | USB 1.0/2.0  | 60                | —          |
| BCE-BG04-U   | CMOS   | M            | Area array | 752 × 480   | NIR, VIS     | USB 1.0/2.0  | 60                | —          |
| CXE-C013-U   | CCD    | C            | Area array | 1392 × 1040,<br>696 × 520,<br>464 × 344,<br>348 × 256 | NIR, VIS     | USB 1.0/2.0  | 15, 29, 37,<br>49 | —          |
| CXE-B013-U   | CCD    | M            | Area array | 1392 × 1040,<br>696 × 520,<br>464 × 344,<br>348 × 256 | NIR, VIS     | USB 1.0/2.0  | 15, 29, 37,<br>49 | —          |
| CCE-C013-U   | CCD    | C            | Area array | 1392 × 1040,<br>348 × 256                             | NIR, VIS     | USB 1.0/2.0  | 15, 49            | —          |
| CCE-B013-U   | CCD    | M            | Area array | 1392 × 1040,<br>696 × 520,<br>464 × 344,<br>348 × 256 | IR, NIR, VIS | USB 1.0/2.0  | 15, 29, 37,<br>49 | —          |
| Mikrotron GmbH / 独マイクロトロン社; www.mikrotron.de             |        |              |            |   |              |  |                   |            |
| EoSens 25CXP+  | CMOS   | C+M          | Area array | 5120 × 5120   | VIS          | CoaXPress  | 80                | —          |
| EoSens 4CXP  | CMOS   | C+M          | Area array | 2336 × 1728   | VIS          | CoaXPress  | 563               | —          |
| EoSens 3CXP  | CMOS   | C+M          | Area array | 1690 × 1710   | VIS          | CoaXPress  | 563               | —          |
| EoSens CL  | CMOS   | C+M          | Area array | 1280 × 1024   | VIS          | Camera Link,<br>Camera Link<br>Extended-Full,<br>Camera Link<br>Extended,<br>Camera Link<br>Full | 506               | —          |

| 製品   | センサタイプ              | カラー/<br>モノクロ | カメラタイプ     | 解像度                                      | 波長                                | インタフェース                          | フレームレート          | データ<br>レート |
|--|---------------------|--------------|------------|--|-----------------------------------|----------------------------------|------------------|------------|
| EoSens GE  | CMOS                | C+M          | Area array | 1280 × 1024                              | VIS                               | GigE                             | 80               | —          |
| MotionBLITZ EoSens Cube7   | CMOS                | C+M          | Area array | 1696 × 1710                              | VIS                               | GigE                             | 523              | —          |
| MotionBLITZ LTR portable   | CMOS                | —            | Area array | —  | VIS                               | Camera Link                      | 506              | —          |
| MotionBLITZ EoSens mini1   | CMOS                | C+M          | Area array | 1280 × 1024                              | VIS                               | GigE                             | 506              | —          |
| Mitsubishi Electric / 三菱電機; <a href="http://www.mitsubishielectric.com/bu/contact_image/index.html">www.mitsubishielectric.com/bu/contact_image/index.html</a> |                     |              |            |  |                                   |                                  |                  |            |
| KD-AX Series   | CMOS                | C            | Line scan  | 7296 × 3,<br>14,592 × 3,<br>21,888 × 3   | —                                 | Camera Link                      | —                | 11-22 kHz  |
| KD-MX Series   | CMOS                | M            | Line scan  | 7296 × 3,<br>14,592 × 3,<br>21,888 × 3   | —                                 | Camera Link                      | —                | 11-22 kHz  |
| KD-CX Series   | CMOS                | C+M          | Line scan  | 8640 × 3,<br>13,824 × 3,<br>19,008 × 3   | —                                 | CoaXPress                        | —                | 50 kHz     |
| KD-DXL Series  | CMOS                | C+M          | Line scan  | 25,056 × 3,<br>29,376 × 3,<br>39,744 × 3 | —                                 | Camera Link,<br>Camera Link Full | —                | 20-53 kHz  |
| KD-CXL Series  | CMOS                | C+M          | Line scan  | 25,056 × 3,<br>29,376 × 3,<br>39,744 × 3 | —                                 | CoaXPress                        | —                | 37-45 kHz  |
| KD-SX Series   | CMOS                | M            | Line scan  | 2736 × 1                                 | —                                 | GigE                             | —                | 6 kHz      |
| Munro Design & Technologies LLC / 米Munro Design & Technologies社; <a href="http://www.munrodandt.com">www.munrodandt.com</a>                                    |                     |              |            |  |                                   |                                  |                  |            |
| Trilogy 3D   | 3D                  | M            | Area array | —  | NIR, VIS                          | Proprietary,<br>USB3             | 60               | —          |
| NET New Electronic Technology GmbH / 独NET New Electronic Technology社; <a href="http://www.net-gmbh.com">www.net-gmbh.com</a>                                   |                     |              |            |  |                                   |                                  |                  |            |
| CORSIGHT   | CMOS                | C+M          | Area array | —  | NIR, VIS                          | Ethernet,<br>RS-232, USB 1.0/2.0 | —                | —          |
| GigEPRO  | CMOS                | C+M          | Area array | 10 MPixels                               | NIR, VIS                          | GigE                             | —                | —          |
| HDselect   | CMOS                | C            | Area array | —  | VIS                               | HDMI, LVDS,<br>USB3              | 60               | —          |
| 3iCube   | CMOS                | —            | —          | 0.4-10 MPixels                           | NIR, VIS                          | USB3                             | —                | —          |
| NET USA Inc / 米NET USA社; <a href="http://www.net-usa-inc.com">www.net-usa-inc.com</a>  |                     |              |            |  |                                   |                                  |                  |            |
| CORSIGHT - all-in-one smart vision system  | CCD & CMOS versions | C+M          | Area array | —  | Multispectral,<br>NIR, VIS        | Ethernet,<br>RS-232, USB 1.0/2.0 | —                | —          |
| GigEPRO - Gigabit Ethernet Cameras   | CMOS                | C+M          | Area array | —  | IR,<br>Multispectral,<br>NIR, VIS | GigE                             | —                | —          |
| 3iCube - USB3 Vision cameras   | CMOS                | C+M          | Area array | —  | NIR, VIS                          | USB3                             | —                | —          |
| Nüvü Cameras Inc / 加Nüvü Cameras社; <a href="http://www.nuvucameras.com">www.nuvucameras.com</a>  |                     |              |            |  |                                   |                                  |                  |            |
| HNü EMCCD camera   | EMCCD               | M            | Area array | 128 × 128,<br>512 × 512,<br>1024 × 1024  | Multispectral,<br>NIR, VIS        | Camera Link,<br>GigE             | 694, 63,<br>16.7 | 320 Mbps   |
| EM N2 EMCCD camera   | EMCCD               | M            | Area array | —  | Multispectral,<br>NIR, VIS        | Camera Link                      | —                | 320 Mbps   |
| Odos Imaging / 英オドス・イメージング社; <a href="http://www.odos-imaging.com">www.odos-imaging.com</a>  |                     |              |            |  |                                   |                                  |                  |            |
| StarForm-Swift Industrial 3D ToF Camera  | 3D                  | M            | Area array | —  | NIR                               | GigE                             | 30               | —          |
| Omron Automation Americas / オムロン・オートメーション・アメリカ社; <a href="http://www.omron247.com">www.omron247.com</a>  |                     |              |            |  |                                   |                                  |                  |            |
| Vision HAWK Smart Camera   | CMOS                | C+M          | Area array | 752 × 480,<br>1280 × 960,<br>2048 × 1088 | VIS                               | Ethernet,<br>RS-232              | ≤60              | —          |



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|---|---------------------------|--------------|------------|--|----------|--|---------|--------------|
| Vision MINI Smart Camera  | CMOS                      | C+M          | Area array | 1280 × 1024,<br>2048 × 1536,<br>752 × 480  | VIS      | Ethernet,<br>RS-232, USB<br>1.0/2.0                            | ≤60     | —            |
| Visionscape GigE Machine<br>Vision System   | —                         | C+M          | Area array | 752 × 480,<br>748 × 476,<br>656 × 494,<br>656 × 490,<br>1032 × 776,<br>1392 × 1040,<br>1624 × 1236,<br>2448 × 2050 | VIS      | GigE   | ≤90     | —            |
| QX Hawk Industrial Imager   | —                         | M            | Area array | 752 × 480,<br>1280 × 960   | VIS      | Ethernet,<br>RS-232,<br>RS-422/<br>LVDS                        | ≤60     | —            |
| Vision MINI Xi Smart<br>Camera  | CMOS                      | C+M          | Area array | 752 × 480,<br>1280 × 1024,<br>2048 × 1530  | VIS      | Ethernet,<br>RS-232  | ≤60     | —            |
| Opto Engineering / 伊オプトエンジニアリング社; <a href="http://www.opto-e.com">www.opto-e.com</a>  |                           |              |            |  |          |  |         |              |
| COE HR AS Series  | CCD &<br>CMOS<br>versions | C+M          | Area array | —  | VIS      | Camera Link,<br>Camera Link<br>Full,<br>Digital I/O,<br>USB3   | 2-27.3  | —            |
| COE HR LS Series  | CMOS                      | M            | Line scan  | —  | VIS      | Camera Link,<br>Camera Link<br>Full                            | —       | 55-77<br>kHz |
| OZRAY Co Ltd / 韓国OZRAY社; <a href="http://eng.nipself.com">http://eng.nipself.com</a>  |                           |              |            |  |          |  |         |              |
| POLLUX PX05M23MGE   | CMOS                      | M            | Area array | —  | VIS      | GigE   | 23.5    | —            |
| POLLUX PXe16M47MCL  | CMOS                      | C+M          | Area array | 4096 × 4096  | VIS      | Camera Link  | 47      | —            |
| POLLUX PX50M17MCL   | CMOS                      | M            | Area array | 7920 × 6004  | VIS      | Camera Link<br>Full  | 17      | —            |
| PAMINA PA320F30N  | InGaAs                    | M            | Area array | 640 × 480  | SWIR     | Analog,<br>Camera Link   | 100     | —            |
| DENEb DE384F30IP  | IR                        | M            | Area array | 384 × 256  | LWIR     | Ethernet,<br>NTSC  | 60      | —            |
| Phase One Industrial / デンマーク、フェーズワンインダストリアル社; <a href="https://industrial.phaseone.com">https://industrial.phaseone.com</a> |                           |              |            |  |          |  |         |              |
| iXM-100   | CMOS                      | C+M          | —          | —  | —        | 10 GigE,<br>USB3   | 3.3     | —            |
| iXM-MV150F  | CMOS                      | C+M          | Area array | —  | —        | 10 GigE,<br>USB3   | 2.5     | —            |
| Photoneo / スロバキア、フォトネオ社; <a href="http://www.photoneo.com">www.photoneo.com</a>   |                           |              |            |  |          |  |         |              |
| PhoXi 3D Scanners   | CMOS                      | M            | Area array | —  | VIS      | Ethernet   | 5       | —            |
| MotionCam-3D  | CMOS                      | M            | Area array | —  | VIS      | Ethernet   | 20      | —            |
| Bin Picking Studio  | CMOS                      | M            | Area array | —  | VIS      | Ethernet   | —       | —            |
| Photonfocus AG / スイス、フォトンフォーカス社; <a href="http://www.photonfocus.com">www.photonfocus.com</a>                               |                           |              |            |  |          |  |         |              |
| MVO-D2592-001-<br>144-G2  | CMOS                      | C+M          | Area array | 2592 × 2048  | NIR, VIS | Camera Link,<br>Digital I/O,<br>GigE,<br>RS-422/<br>LVDS, USB3 | 21      | —            |
| MV-D1024E-3D01-160-<br>CL-12  | 3D                        | M            | Area array | 1024 × 1024  | NIR, VIS | Camera Link,<br>Digital I/O                                    | 3100    | —            |
| MV1-D2048x1088-<br>3D03-760-G2  | 3D                        | M            | Area array | 2048 × 1088  | NIR, VIS | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS                       | 10,200  | —            |

| 製品   | センサタイプ                        | カラー/<br>モノクロ | カメラタイプ     | 解像度         | 波長   | インターフェース                                 | フレームレート               | データ<br>レート              |
|--|-------------------------------|--------------|------------|-------------|--|--|-----------------------|-------------------------|
| MV1-D1280-L01-3D05-1280-G2   | CMOS                          | M            | Area array | 1280 × 1024 | NIR, VIS                                   | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 43.700                | —                       |
| DR1-D2048x1088-192-G2  | CMOS                          | C+M          | Area array | 2048 × 1088 | NIR, VIS                                   | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 85                    | —                       |
| QR1-D2048x1088-384-G2  | CMOS                          | C+M          | Area array | 2048 × 1088 | NIR, VIS                                   | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 169                   | —                       |
| MV1-D2048x1088-HS01-96-G2  | CMOS                          | M            | Area array | 2048 × 1088 | Multispectral,<br>NIR, VIS                 | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 42                    | —                       |
| MV1-D2048x1088-HS02-96-G2  | CMOS                          | C+M          | —          | 2048 × 1088 | Multispectral,<br>NIR, VIS                 | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 42                    | —                       |
| MV1-D2048x1088-HS03-96-G2  | CMOS                          | C+M          | Area array | 2048 × 1088 | Multispectral,<br>VIS                      | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 42                    | —                       |
| DR1-D1312-200-G2-8   | CMOS                          | M            | Area array | 1312 × 1082 | NIR, VIS                                   | Digital I/O,<br>GigE,<br>RS-422/<br>LVDS | 135                   | —                       |
| Photron USA Inc / 米フォトロン社; www.photron.com   |                               |              |            |             |  |  |                       |                         |
| FASTCAM Mini AX  | CMOS                          | C+M          | Area array | 1024 × 1024 | VIS  | GigE                                     | 6400-11,<br>182,762   | —                       |
| FASTCAM Mini UX  | CMOS                          | C+M          | Area array | 1280 × 1024 | VIS  | GigE                                     | 4000-745,<br>483      | —                       |
| FASTCAM Mini WX  | CMOS                          | C+M          | Area array | 2048 × 2048 | VIS  | GigE                                     | 1080-2,<br>794,154    | —                       |
| FASTCAM SA-X2  | —                             | C+M          | Area array | —           | VIS  | Dual GigE,<br>GigE                       | 12,500-44,<br>735,144 | —                       |
| FASTCAM SA-Z   | CMOS                          | C+M          | Area array | 1024 × 1024 | VIS  | GigE                                     | 20,000-<br>2,100,000  | —                       |
| FASTCAM Multi  | CMOS                          | C+M          | Area array | 1280 × 1024 | VIS  | Ethernet                                 | 4800-<br>2,235,938    | —                       |
| Pixelink / 加ピクセリンク社; www.pixelink.com  |                               |              |            |             |  |  |                       |                         |
| PL-D721 USB 3.0 Camera   | CMOS                          | C+M          | Area array | —           | NIR, VIS                                   | USB3                                     | 150                   | —                       |
| PL-D722 USB 3.0 Camera   | CMOS                          | C+M          | Area array | —           | NIR, VIS                                   | USB3                                     | 87                    | —                       |
| PL-D725 USB 3.0 Camera   | CMOS                          | C+M          | Area array | —           | NIR, VIS                                   | USB3                                     | 70                    | —                       |
| PL-D775 USB 3.0 Camera   | CMOS                          | C            | Area array | —           | NIR, VIS                                   | USB3                                     | 15                    | —                       |
| PL-D726 USB 3.0 Camera   | CMOS                          | M            | Area array | —           | NIR, VIS                                   | USB3                                     | 5.3                   | —                       |
| PL-D729 USB 3.0 Camera   | CMOS                          | M            | Area array | —           | VIS  | USB3                                     | 20                    | —                       |
| PL-D7715 USB 3.0 Camera  | CMOS                          | C            | Area array | —           | VIS  | USB3                                     | 13                    | —                       |
| Princeton Infrared Technologies Inc (PIRT) / 米プリンストンインフラレッドテクノロジーズ社; www.princetonirtech.com |                               |              |            |             |  |  |                       |                         |
| 1280SciCam Scientific Camera   | InGaAs<br>Photodiode<br>array | M            | Area array | 1280 × 1024 | IR,<br>Multispectral,<br>SWIR, NIR,<br>VIS | Camera Link                              | 93                    | —                       |
| LineCam 12   | InGaAs                        | M            | Line scan  | 1024 × 1    | IR,<br>Multispectral,<br>SWIR, NIR,<br>VIS | USB3 and<br>Camera Link                  | —                     | <20k-<br>48k<br>lines/s |

| 製品   | センサタイプ                        | カラー/<br>モノクロ | カメラタイプ     | 解像度  | 波長   | インタフェース                                  | フレームレート | データ<br>レート |
|--|-------------------------------|--------------|------------|--|--|--|---------|------------|
| MVCam  | InGaAs                        | M            | Area array | 1280 × 1024                                | IR,<br>Multispectral,<br>SWIR, NIR,<br>VIS | Camera Link                              | 93      |            |
| Radiant Vision Systems / 米ラディアントビジョンシステムズ社; www.radiantvisionsystems.com |                               |              |            |  |  |  |         |            |
| ProMetric Y2<br>Imaging Photometer                                       | CCD                           | M            | Area array | 1600 × 1200                                | IR, VIS                                    | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric I2<br>Imaging Colorimeter                                      | CCD                           | C+M          | Area array | 1600 × 1200                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric Y16<br>Imaging Photometer                                      | CCD                           | M            | Area array | 4896 × 3264                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric Y29<br>Imaging Photometer                                      | CCD                           | M            | Area array | 6576 × 4384                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric I8<br>Imaging Colorimeter                                      | CCD                           | C+M          | Area array | 3296 × 2472                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric I16<br>Imaging Colorimeter                                     | CCD                           | C+M          | Area array | 4896 × 3264                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric I29<br>Imaging Colorimeter                                     | CCD                           | C+M          | Area array | 6576 × 4384                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| ProMetric Y43<br>Imaging Photometer                                      | CCD                           | M            | Area array | 8040 × 5360                                | IR, NIR, VIS                               | Ethernet,<br>Proprietary,<br>USB 1.0/2.0 | —       | —          |
| Raptor Photonics Ltd / 英ラプターフォトニクス社; www.raptorphotonics.com             |                               |              |            |  |  |  |         |            |
| Falcon III   | EMCCD                         | M            | Area array | 1000 × 1000                                | UV, X-ray,<br>VIS                          | Camera Link                              | 32      | 30 Hz      |
| Ninox 1280   | InGaAs                        | M            | Area array | 1280 × 1024                                | Hyperspectral,<br>SWIR,<br>NIR, VIS        | Camera Link                              | 60      | 10-60 Hz   |
| Eagle  | CCD                           | M            | Area array | 2048 × 2048,<br>1024 × 1024,<br>2048 × 512 | NIR, UV,<br>X-ray, VIS                     | Camera Link                              | —       | 7 Hz       |
| OWL SW1.7 CL-640   | InGaAs<br>Photodiode<br>array | M            | Area array | —  | SWIR, VIS                                  | Analog,<br>Camera Link                   | —       | 120 Hz     |
| Ninox Ultra 640 SWIR   | InGaAs                        | M            | Area array | 640 × 512                                  | SWIR, NIR,<br>VIS                          | Camera Link                              | —       | 300 Hz     |
| Recognition Robotics / 米レコグニションロボティクス社; www.recognitionrobotics.com      |                               |              |            |  |  |  |         |            |
| Robeye   | CCD                           | C            | —          | —  | VIS  | GigE                                     | —       | —          |
| Lucana   | CCD                           | M            | —          | —  | VIS  | GigE, USB<br>1.0/2.0                     | —       | —          |
| Lucana Aero  | CCD                           | C+M          | —          | —  | VIS  | GigE, USB3                               | —       | —          |
| Schaefter+Kirchhoff GmbH / 独シャフター・キルヒホフ社; www.sukhamburg.com             |                               |              |            |  |  |  |         |            |
| SK2048U3HW   | CMOS                          | M            | Line scan  | —  | —  | USB3                                     | —       | 4.56 kHz   |
| SK7456U3TO   | CCD                           | M            | Line scan  | —  | —  | USB3                                     | —       | 5.2 kHz    |
| SK22368U3TOC-LA  | CCD                           | C            | Line scan  | —  | —  | USB3                                     | —       | 5.13 kHz   |
| SK6288U3KOC  | CCD                           | C            | Line scan  | —  | —  | USB3                                     | —       | 9.28 kHz   |
| SK1024U3PD   | CCD                           | M            | Line scan  | —  | —  | USB3                                     | —       | 52.6 kHz   |
| SK2048U3PD   | CCD                           | M            | Line scan  | —  | —  | USB3                                     | —       | 27.78 kHz  |
| SK4096U3FD-L   | CCD                           | M            | Line scan  | —  | —  | USB3                                     | —       | 27.78 kHz  |
| SK5150U3JR   | CCD                           | M            | —          | —  | —  | USB3                                     | —       | 7.56 kHz   |

| 製品   | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度         | 波長  | インターフェース   | フレームレート    | データ<br>レート |
|--|--------|--------------|------------|-------------|-----|--|------------|------------|
| SK8160U3KO-LB  | CCD    | M            | Line scan  | —           | —   | USB3   | —          | 11.9 kHz   |
| SK12240U3KOC-LB  | CCD    | C            | Line scan  | —           | —   | USB3   | —          | 7.2 kHz    |
| SICK Inc / 米ジック社; <a href="http://www.sickusa.com">www.sickusa.com</a>   |        |              |            |             |     |  |            |            |
| TriSpector1000   | 3D     | M            | Line scan  | —           | —   | Digital I/O,<br>Ethernet   | —          | —          |
| Ranger3  | 3D     | C+M          | Line scan  | —           | —   | Camera Link,<br>Ethernet   | —          | 60 kHz     |
| Color Ranger 3D Camera   | CMOS   | C+M          | Area array | 1536 × 512  | VIS | GigE   | 11,000     | —          |
| Inspector I10  | CMOS   | M            | Area array | —           | VIS | Ethernet   | 100        | —          |
| Inspector I20  | CMOS   | M            | Area array | 384 × 384   | VIS | Ethernet   | 100        | —          |
| Inspector I20-UV   | CMOS   | M            | Area array | 384 × 384   | UV  | Ethernet   | 100        | —          |
| Inspector I40  | CMOS   | M            | Area array | 640 × 480   | VIS | Ethernet   | 100        | —          |
| IVC-3D 100   | 3D     | M            | Area array | 1536 × 512  | VIS | Ethernet   | 5000       | —          |
| IVC-3D50   | 3D     | M            | Area array | 1536 × 512  | VIS | Ethernet   | 5000       | —          |
| Sony Europe, Image Sensing Solutions / 英Sony Europe, Image Sensing Solutions; <a href="http://www.image-sensing-solutions.eu">www.image-sensing-solutions.eu</a> |        |              |            |             |     |  |            |            |
| XCG-CP510  | CMOS   | M            | Area array | 2448 × 2048 | VIS | GigE   | 23         | —          |
| XCU-CG160  | CMOS   | C+M          | Area array | 1456 × 1088 | VIS | USB3   | 100        | —          |
| XCL-CG510  | CMOS   | C+M          | Area array | 2448 × 2048 | VIS | Camera Link,<br>Camera Link<br>Extended-Full,<br>Camera Link<br>Extended,<br>Camera Link<br>Full | 35         | —          |
| XCG-CG160  | CMOS   | C+M          | Area array | 1456 × 1088 | VIS | GigE   | 70         | —          |
| FCB-ER8550   | CMOS   | C            | Area array | —           | VIS | —  | ≤60        | —          |
| FCB-ER8300   | CMOS   | C            | Area array | 3840 × 2160 | VIS | HDTV, LVDS   | 30         | —          |
| XCG-CG240  | CMOS   | C+M          | Area array | 1936 × 1216 | VIS | GigE   | 40 (8 bit) | —          |
| XCG-CG510  | CMOS   | C+M          | Area array | 2464 × 2048 | VIS | GigE   | 23 (8 bit) | —          |
| XCL-SG510  | CMOS   | C+M          | Area array | 5.1 MPixels | VIS | Camera Link  | 154        | —          |
| FCB-EV7520   | CMOS   | C            | Area array | 1920 × 1080 | VIS | —  | 60         | —          |
| XCL-SG1240   | CMOS   | C+M          | Area array | 4112 × 3008 | VIS | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended                        | 20         | —          |
| FCB-ER8530   | CMOS   | C            | Area array | —           | VIS | —  | ≤60        | —          |
| FCB-ES8230   | CMOS   | C            | Area array | —           | VIS | —  | 30         | —          |
| FCB-EV7520A  | CMOS   | C            | Area array | 1920 × 1080 | VIS | —  | 60         | —          |
| FCB-EV7100   | CMOS   | C            | Area array | —           | VIS | —  | 60         | —          |
| Sony Visual Imaging Products / 米ソニービジュアルイメージングプロダクツ社; <a href="http://www.sony.com/videocameras">www.sony.com/videocameras</a>                                   |        |              |            |             |     |  |            |            |
| FCB-ER8550   | CMOS   | C            | Area array | —           | VIS | HDMI, LVDS   | ≤60        | —          |
| FCB-ER8530   | CMOS   | C            | Area array | —           | VIS | HDMI   | ≤60        | —          |
| FCB-ES8230   | CMOS   | C            | Area array | —           | VIS | HDMI   | ≤60        | —          |
| FCB-EV7520A  | CMOS   | C            | Area array | —           | VIS | LVDS   | ≤60        | —          |
| XC-505   | CCD    | C            | Area array | 768 × 494   | VIS | NTSC/PAL/<br>RS-170  | 30         | —          |

| 製品   | センサタイプ         | カラー/<br>モノクロ | カメラタイプ     | 解像度   | 波長                         | インタフェース   | フレームレート                            | データ<br>レート |
|--|----------------|--------------|------------|---|----------------------------|---|------------------------------------|------------|
| XCG-CG240/C  | CMOS           | C+M          | Area array | —   | —                          | GigE  | 40 (8 bit)                         | —          |
| XCG-CG510/C  | CMOS           | C+M          | Area array | —   | —                          | GigE  | 23 (8 bit)                         | —          |
| SPECIM Spectral Imaging Ltd /フィンランド、スベシム社; www.specim.fi |                |              |            |   |                            |   |                                    |            |
| Specim FX10  | CMOS           | M            | Line scan  | —   | Hyperspectral,<br>NIR, VIS | Camera Link,<br>GigE                                    |                                    | —          |
| Specim FX17  | InGaAs         | M            | Line scan  | —   | Hyperspectral,<br>NIR      | Camera Link,<br>GigE                                    | 670 (full),<br>15,000<br>(4 bands) | —          |
| Specim FX50  | InSb           | —            | Line scan  | —   | Hyperspectral,<br>MWIR     | GigE  | 380                                | —          |
| SVS-Vistek GmbH /独SVSヴィステック社; www.svs-vistek.com         |                |              |            |   |                            |   |                                    |            |
| ECO Series   | CCD            | C+M          | Area array | 0.3-12 MPixels  | VIS                        | GigE  | 10-155                             | —          |
| EVO Tracer   | CCD            | C+M          | Area array | —   | VIS                        | GigE  | 21.8-147                           | —          |
| EXO Tracer   | CMOS           | C+M          | Area array | —   | —                          | GigE  | 9                                  | —          |
| hr120  | CMOS           | M            | —          | —   | —                          | Camera Link,<br>Camera Link<br>Full,<br>CoaXPress       | 9.3                                | —          |
| Tattile Srl /伊Tattile社; www.tattile.com                  |                |              |            |   |                            |   |                                    |            |
| S50 SMART CAMERA   | CMOS           | C+M          | Area array | 640 × 480   | —                          | Digital I/O,<br>Ethernet,<br>RS-232                     | 120                                | —          |
| S100 SMART CAMERA  | CMOS           | C+M          | Area array | 640 × 480   | —                          | Digital I/O,<br>Ethernet,<br>RS-232                     | 250                                | —          |
| S12MP SMART CAMERA                                       | CMOS           | M            | Area array | —   | VIS                        | GigE  | 330                                | —          |
| S200 SMART CAMERA  | CMOS           | C+M          | Area array | 2048 × 2048   | —                          | Digital I/O,<br>Ethernet,<br>RS-232,<br>RS-422/<br>LVDS | 180                                | —          |
| TAG-5  | CMOS           | C+M          | Area array | 640 × 480   | —                          | GigE  | 250                                | —          |
| TAG-7  | CCD            | M            | Line scan  | 2048 × 1  | —                          | Camera Link   | —                                  | 10 kHz     |
| Teledyne DALSA /加テレデザイン・ダルサ社; www.teledynedalsa.com      |                |              |            |   |                            |   |                                    |            |
| Genie Nano-5G  | CMOS           | C+M          | Area array | 2064 × 1544,<br>2464 × 2056,<br>4112 × 2176,<br>4112 × 3008                 | VIS                        | 5 GigE  | 190, 141,<br>88, 64                | —          |
| Genie Nano Polarization<br>Camera                        | CMOS           | C+M          | Area array | 2464 × 2056   | VIS                        | GigE  | 34                                 | —          |
| Falcon4 86M  | CMOS           | C+M          | Area array | 10,720 × 8064   | NIR, VIS                   | Camera Link<br>HS                                       | 16                                 | —          |
| Genie Nano CL Series                                     | CMOS           | C+M          | Area array | 2464 × 2056,<br>4112 × 2176,<br>4112 × 3012,<br>4096 × 4096,<br>5120 × 5120 | NIR, VIS                   | Camera Link,<br>Camera Link<br>Full                     | 141, 88, 64,<br>45, 30             | —          |
| Genie Nano CXP   | CMOS           | M            | Area array | 4096 × 4096,<br>5120 × 5120   | NIR, VIS                   | CoaXPress   | 80, 120                            | —          |
| Calibir 640 Series                                       | Microbolometer | M            | —          | 640 × 480   | LWIR                       | GigE  | 30, 60                             | —          |
| Calibir DXM640 Series                                    | Microbolometer | M            | —          | 640 × 480   | LWIR                       | GigE  | 30                                 | —          |
| Linea Series   | CMOS           | M            | Line scan  | 2048 × 1,<br>4096 × 1,<br>8192 × 1,<br>16,384 × 1                           | VIS                        | Camera Link,<br>Camera Link<br>HS, GigE                 | —                                  | 80         |

| 製品                     | センサタイプ | カラー/<br>モノクロ | カメラタイプ            | 解像度   | 波長       | インタフェース   | フレームレート  | データ<br>レート                     |
|------------------------|--------|--------------|-------------------|---|----------|---|--|--------------------------------|
| Genie Nano-1 G Series  | CMOS   | C+M          | Area array        | 672 × 512,<br>728 × 544,<br>832 × 632,<br>1280 × 1024,<br>1456 × 1088,<br>1936 × 1216,<br>2064 × 1544,<br>2464 × 2056,<br>2592 × 2048,<br>4112 × 2176,<br>4112 × 3008,<br>4096 × 4096,<br>5120 × 5120 | NIR, VIS | GigE  | 862, 310,<br>566, 213,<br>150, 116,<br>140, 80,<br>51, 60, 40,<br>30, 20 | —                              |
| Piranha XL XDR         | CMOS   | M            | TDI               | 16,352 × 12   | VIS      | Camera Link<br>HS   | —  | 125 kHz                        |
| Linea Color Series     | CMOS   | C            | Line scan         | 2048 × 2,<br>4096 × 2,<br>8192 × 2  | VIS      | Camera Link,<br>GigE                                      | —  | 48 kHz                         |
| BOA2 XA Series         | CMOS   | M            | Area array        | 1664 × 1216,<br>1920 × 1440,<br>2560 × 2048   | VIS      | Digital I/O,<br>Ethernet,<br>RS-232                       | 80, 60, 40   | —                              |
| BOA Series             | CCD    | C+M          | Area array        | 640 × 480,<br>1024 × 768,<br>1280 × 960,<br>1600 × 1200   | VIS      | Ethernet,<br>RS-232                                       | 60, 25, 20,<br>15  | —                              |
| Piranha4 Series        | CMOS   | M            | Line scan         | 2048 × 2,<br>4096 × 2,<br>8192 × 2  | VIS      | Camera Link   | —  | 200/100,<br>100/70<br>kHz      |
| Piranha4 Color Series  | CMOS   | C            | Line scan         | 2048 × 3,<br>4096 × 3,<br>8192 × 3  | VIS      | Camera Link,<br>Camera Link<br>Full                       | —  | 70 kHz<br>x 3                  |
| Piranha4 Multispectral | CMOS   | C            | Line scan         | 2048 × 4  | NIR, VIS | Camera Link,<br>Camera Link<br>Full                       | —  | 70 kHz<br>x 4                  |
| Piranha HS             | CCD    | M            | TDI               | 4096 × 48,<br>4096 × 96,<br>6000 × 256,<br>8192 × 96,<br>12,000 × 256   | VIS      | Camera Link,<br>Camera Link<br>Full,<br>Camera Link<br>HS | —  | 36, 68,<br>142, 110,<br>90 kHz |
| Piranha HS NIR         | CCD    | M            | TDI               | 8192 × 256  | NIR, VIS | Camera Link,<br>Camera Link<br>Full                       | —  | 34 kHz                         |
| Piranha ES Series      | CCD    | M            | TDI               | 4096 × 16,<br>4096 × 32,<br>8192 × 32,<br>12,000 × 64   | VIS      | Camera Link,<br>Camera Link<br>Full                       | —  | 110, 68,<br>34-68,<br>90 kHz   |
| Falcon2 8M, 12M        | CMOS   | C+M          | Area array        | 2048 × 2048,<br>2816 × 2816,<br>3328 × 2502,<br>4096 × 3072   | VIS      | Camera Link<br>Full                                       | 168, 90, 58  | —                              |
| Piranha XL Color       | CMOS   | C            | TDI               | 8192 × 12,<br>16,352 × 12   | VIS      | Camera Link<br>HS   | —  | 70 kHz                         |
| BOA Spot Series        | CMOS   | C+M          | Area array        | 640 × 480,<br>1280 × 960  | VIS      | Digital I/O,<br>Ethernet,<br>RS-232                       | 45, 30   | —                              |
| Linea ML               | CMOS   | M            | Line scan/<br>TDI | 8192 × 4,<br>16,384 × 4   | NIR, VIS | Camera Link<br>HS   | —  | 300 kHz                        |
| Linea ML Color         | CMOS   | C            | Line scan         | 8192 × 3,<br>16,384 × 3   | VIS      | Camera Link<br>HS   | —  | 100 kHz<br>x 3                 |
| Linea ML Multispectral | CMOS   | C            | Line scan         | 8192 × 4  | NIR, VIS | Camera Link<br>HS   | —  | 75 kHz<br>x 4                  |
| Linea HS               | CMOS   | M            | TDI               | 8192 × 192,<br>16,384 × 192,<br>32,768 × 64   | NIR, VIS | Camera Link<br>HS   | —  | 300 kHz                        |

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|--|--------|--------------|------------|---|-----------------------------------|-------------------------------------|-------------------|-------------------------------|
| Linea HS Multifield  | CMOS   | C            | TDI        | 16,384 × 192  | NIR, VIS                          | Camera Link<br>HS                   | —                 | 100 kHz<br>× 3                |
| BOA Spot Series  | CMOS   | C+M          | Area array | 640 × 480,<br>1280 × 960  | VIS                               | Digital I/O,<br>Ethernet,<br>RS-232 | 45, 30            | —                             |
| Teledyne Digital Imaging US Inc / 米テレダイン・デジタル・イメージング社; www.teledynedalsa.com |        |              |            |   |                                   |                                     |                   |                               |
| BOA Smart Camera   | CCD    | C+M          | Area array | 640 × 480,<br>1024 × 768,<br>1280 × 960,<br>1600 × 1200           | VIS                               | Digital I/O,<br>Ethernet,<br>RS-232 | 60, 22, 22,<br>15 | —                             |
| Falcon 2M304M15  | CCD    | M            | Area array | 1600 × 1200,<br>1920 × 1080,<br>2048 × 2048                       | VIS                               | Camera Link                         | 34, 16            | —                             |
| Falcon 4M30/4M60   | CMOS   | C+M          | Area array | 2352 × 1728   | VIS                               | Camera Link                         | 31, 62            | —                             |
| Piranha Color  | CCD    | C            | —          | 2048 × 3,<br>4096 × 3   | VIS                               | Camera Link                         | —                 | 22/12<br>kHz                  |
| Piranha ES   | CCD    | M            | TDI        | 4096 × 32,<br>4096 × 16,<br>8192 × 32                             | VIS                               | Camera Link                         | —                 | 68, 110,<br>68 kHz            |
| Piranha HS   | CCD    | M            | TDI        | 2048 × 64,<br>4096 × 64,<br>4096 × 96,<br>4096 × 48,<br>8192 × 96 | VIS                               | Camera Link                         | —                 | 52, 36,<br>68, 110,<br>68 kHz |
| Teledyne e2v / 米テレダインe2v社; www.e2v.com                                       |        |              |            |   |                                   |                                     |                   |                               |
| UNiiQA+ high-speed   | CMOS   | C+M          | Line scan  | 1 × 4000,<br>1 × 2000,<br>1 × 1000                                | NIR, VIS                          | Camera Link                         | —                 | 100 kHz                       |
| UNiiQA+ essential  | CMOS   | C+M          | Line scan  | 1 × 4000,<br>1 × 2000,<br>1 × 1000                                | NIR, VIS                          | Camera Link                         | —                 | 80, 100<br>kHz                |
| UNiiQA+ high-resolution  | CMOS   | M            | Line scan  | 16,000 × 1  | NIR, VIS                          | Camera Link                         | —                 | 50 kHz                        |
| ELiixA+ 16k/8k   | CMOS   | C+M          | Line scan  | 4 × 16,000,<br>2 × 8000   | NIR, VIS                          | Camera Link,<br>CoaXPress           | —                 | 140, 100<br>kHz               |
| ELiixA+ 8k/4k  | CMOS   | C+M          | Line scan  | 4 × 8000,<br>2 × 4000   | NIR, VIS                          | Camera Link                         | —                 | 50, 100<br>kHz                |
| ELiixA+ high-speed   | CMOS   | M            | Line scan  | 4 × 16,000,<br>4 × 11,000   | NIR, VIS                          | Camera Link,<br>CoaXPress           | —                 | 200 kHz                       |
| ELiixA+ 8k dual line   | CMOS   | M            | Line scan  | 8192 × 2  | NIR, VIS                          | Camera Link                         | —                 | 100 kHz                       |
| OctoPlus OCT   | CMOS   | M            | Line scan  | 2048 × 1  | NIR                               | Camera Link,<br>USB3                | —                 | 20, 80,<br>130, 250<br>kHz    |
| UNiiQA+ NBASE-T  | CMOS   | C+M          | Line scan  | 2048, 4096  | NIR, VIS                          | GigE                                | —                 | 100, 140<br>kHz               |
| ELiixA+ NBASE-T  | CMOS   | C+M          | Line scan  | 2048 × 4,<br>4096 × 4   | NIR, VIS                          | GigE                                | —                 | 100, 140<br>kHz               |
| Teledyne Lumenera / 加テレダイン・ルメネラ社; www.teledynelumenera.com                   |        |              |            |   |                                   |                                     |                   |                               |
| Teledyne Lumenera<br>Lt29059-NIR   | CCD    | C+M          | —          | —   | NIR                               | USB3                                | 6                 | —                             |
| Teledyne Lumenera<br>Lt1245R   | CMOS   | C+M          | Area array | 4112 × 3008   | VIS                               | USB3                                | 30                | —                             |
| Teledyne Lumenera<br>Lt945R  | CMOS   | C+M          | Area array | 4112 × 2176   | VIS                               | USB3                                | 42                | —                             |
| Teledyne Lumenera<br>Lt545R  | CMOS   | C+M          | Area array | 2464 × 2056   | IR,<br>Multispectral,<br>NIR      | USB 1.0/2.0,<br>USB3                | 75                | —                             |
| Teledyne Lumenera<br>Lt345R  | CMOS   | C+M          | Area array | 2064 × 1544   | IR,<br>Multispectral,<br>NIR, VIS | USB 1.0/2.0,<br>USB3                | 120               | —                             |
| Teledyne Lumenera<br>Lt16059H  | CCD    | C+M          | Area array | 4864 × 3232   | VIS                               | USB 1.0/2.0,<br>USB3                | 11                | 5 Gbps                        |

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|--|--------|--------------|------------|----------------|--------------|------------------------|-------------------------------|-------------|
| Teledyne Lumenera Lt1265R  | CCD    | C+M          | Area array | 4240 × 2832    | NIR, VIS     | USB3                   | 15                            | 5 Gbps      |
| Teledyne Lumenera Lt965R   | CCD    | C+M          | Area array | 3376 × 2704    | NIR, VIS     | USB3                   | 19                            | 5 Gbps      |
| Teledyne Lumenera Lt665R   | CCD    | C+M          | Area array | 2752 × 2192    | NIR, VIS     | USB3                   | 27                            | 5 Gbps      |
| Teledyne Lumenera Lt365R   | CCD    | C+M          | Area array | 1936 × 1456    | NIR, VIS     | USB3                   | 53                            | 5 Gbps      |
| Teledyne Lumenera Lt425  | CCD    | C+M          | Area array | 2048 × 2048    | NIR, VIS     | USB3                   | 90                            | 5 Gbps      |
| Teledyne Lumenera Lt225  | CMOS   | C+M          | Area array | 2048 × 1088    | NIR, VIS     | USB3                   | 170                           | 5 Gbps      |
| Teledyne Lumenera Lt29059  | CCD    | C+M          | Area array | 6576 × 4384    | VIS          | USB 1.0/2.0,<br>USB3   | 6                             | 5 Gbps      |
| Teledyne Lumenera Lg11059  | CCD    | C+M          | Area array | 4008 × 2672    | VIS          | GigE                   | 5                             | 1 Gbps      |
| Teledyne Lumenera Lm11059  | CCD    | C+M          | Area array | 4008 × 2672    | VIS          | USB 1.0/2.0,<br>USB3   | 4.3                           | 400<br>Mbps |
| Teledyne Photometrics / 米テレデザイン・フォトメトリックス社; <a href="http://www.photometrics.com">www.photometrics.com</a>   |        |              |            |                |              |                        |                               |             |
| Prime BSI Scientific CMOS Camera   | CMOS   | M            | Area array | 2048 × 2048    | NIR, UV, VIS | PCIe, USB3             | 43.5, 63                      | —           |
| Prime 95B Scientific CMOS Camera   | CMOS   | M            | Area array | 1200 × 1200    | NIR, UV, VIS | PCIe, USB3             | 82                            | —           |
| Prime sCMOS Camera   | CMOS   | M            | Area array | 2048 × 2048    | NIR, VIS     | PCIe, USB3             | 100                           | —           |
| Evolve Delta Camera  | EMCCD  | M            | Area array | 512 × 512      | NIR, UV, VIS | FireWire               | 67 (full), 794<br>(128 × 128) | 20 MHz      |
| Evolve 512 Camera  | EMCCD  | M            | Line scan  | 512 × 512      | NIR, VIS     | FireWire               | 33                            | 10 MHz      |
| S477 Camera  | CCD    | C+M          | Line scan  | —              | NIR, VIS     | —                      | —                             | —           |
| PM695  | CCD    | M            | Area array | 2688 × 2200    | NIR, VIS     | USB 1.0/2.0            | 3.3                           | —           |
| Iris 9 Scientific CMOS Camera  | CMOS   | —            | —          | 5056 × 2960    | —            | PCIe                   | 30                            | —           |
| CoolSNAP DYNO CCD Camera   | CCD    | M            | Line scan  | —              | —            | USB 1.0/2.0,<br>USB3   | 14.4 (full),<br>24.1 (2 × 2)  | —           |
| TeraSense / 米テラセンス社; <a href="http://www.terasense.com">www.terasense.com</a>                                |        |              |            |                |              |                        |                               |             |
| TeraFAST-256-HS high speed linear THz imaging camera   | InGaAs | M            | Line scan  | —              | —            | Analog, USB<br>1.0/2.0 | 5000                          | 5 kHz       |
| The Imaging Source LLC / 米イメージングソース社; <a href="http://www.theimagingsource.com">www.theimagingsource.com</a> |        |              |            |                |              |                        |                               |             |
| DFK 38UX267  | CMOS   | C+M          | Area array | —              | NIR, VIS     | Digital I/O,<br>USB3   | ≤35                           | —           |
| DFK AFU420-CCS   | CMOS   | C            | Area array | —              | NIR, VIS     | USB3                   | ≤110 (full)                   | —           |
| DMK 37BUX287   | CMOS   | C+M          | Area array | —              | NIR, VIS     | USB3                   | ≤539                          | —           |
| DFK 38GX267  | CMOS   | C+M          | Area array | —              | NIR, VIS     | GigE                   | ≤13                           | —           |
| DMK 37BUX264   | CMOS   | C+M          | Area array | 3.45 × 3.45 μm | NIR, VIS     | USB3                   | ≤38                           | —           |
| DFM 37UX252-ML   | CMOS   | C+M          | Area array | 3.45 × 3.45 μm | NIR, VIS     | USB3                   | ≤119                          | —           |
| DFM 25GX236-ML   | CMOS   | C+M          | Area array | 2.8 × 2.8 μm   | NIR, VIS     | GigE                   | ≤36                           | —           |
| DMK Z30GP031   | CMOS   | C+M          | Area array | 2.2 × 2.2 μm   | NIR, VIS     | GigE                   | ≤15                           | —           |
| DFK 72AUC02-F  | CMOS   | C+M          | Area array | 2.2 × 2.2 μm   | NIR, VIS     | USB 1.0/2.0            | ≤6                            | —           |
| DMM 22BUC03-ML   | CMOS   | C+M          | Area array | 6 × 6 μm       | NIR, VIS     | USB 1.0/2.0            | ≤76                           | —           |



| 製品   | センサタイプ | カラー /<br>モノクロ | カメラタイプ    | 解像度        | 波長                             | インタフェース  | フレームレート | データ<br>レート |
|--|--------|---------------|-----------|------------|--------------------------------|--|---------|------------|
| Tichawa Vision GmbH / 独 Tichawa Vision 社: <a href="http://www.tichawa-vision.com">www.tichawa-vision.com</a> |        |               |           |            |                                |  |         |            |
| G_VTCIS_1040_XXXX_ RGB_3.0   | CMOS   | C+M           | Line scan | 49,152 × 1 | Multispectral,<br>NIR, UV, VIS | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 10,000  | 85 MHz     |
| G_VTCIS_1560_1200_ 3WHC_3.0  | CMOS   | C+M           | Line scan | 73,782 × 1 | Multispectral,<br>NIR, UV, VIS | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 30,550  | 85 MHz     |
| G_VTMCV_0560_0600_ 2RGB_3.0  | CMOS   | C+M           | Line scan | 13,230 × 1 | Multispectral,<br>NIR, UV, VIS | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 18,182  | 85 MHz     |
| G_MXCIS_4160_0600_ K3_2AM_2.0  | CMOS   | M             | Line scan | 98,304 × 1 | NIR, VIS                       | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 10,000  | 85 MHz     |
| G_VDCIS_1200_0500_ 2AM_3.0   | CMOS   | C+M           | Line scan | 23,040 × 1 | NIR, UV, VIS                   | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 30,181  | 85 MHz     |
| G_VDCIS_1200_1000_ 2RGB_3.0  | CMOS   | C+M           | Line scan | 46,080 × 1 | NIR, UV, VIS                   | Camera Link,<br>Camera Link<br>Extended-<br>Full, Camera<br>Link Extended,<br>Camera<br>Link Full,<br>CoaXPress,<br>Ethernet, GigE | 7568    | 85 MHz     |

| 製品  | センサタイプ              | カラー/<br>モノクロ | カメラタイプ     | 解像度           | 波長           | インタフェース                             | フレームレート | データ<br>レート |
|---|---------------------|--------------|------------|---------------|--------------|-------------------------------------|---------|------------|
| Tordivel AS / ノルウェー Tordivel社; www.scorpionvision.com |                     |              |            |               |              |                                     |         |            |
| Scorpion 3D Stinger for Robot Vision                  | CCD & CMOS versions | C+M          | Area array | —             | IR, UV, VIS  | GigE, RS-232                        | —       | —          |
| Scorpion 2D Stinger Camera                            | —                   | C+M          | Area array | —             | IR, VIS      | Digital I/O, Ethernet, GigE, RS-232 | 1-100   | —          |
| Scorpion 3D Venom Camera                              | —                   | C+M          | —          | —             | IR, NIR      | Ethernet, GigE                      | 1-100   | —          |
| Scorpion Stinger Compact Camera                       | —                   | C+M          | —          | —             | IR, NIR, VIS | Ethernet, GigE                      | ≤250    | —          |
| Toshiba Teli Corp / 東芝テリー; www.toshiba-teli.co.jp/en  |                     |              |            |               |              |                                     |         |            |
| DU657M series   | CMOS                | C+M          | Area array | 2,560 x 2,560 | VIS          | USB3                                | 55      | 360 MB/s   |
| DU1207M series  | CMOS                | C+M          | Area array | 4,096 x 3,000 | VIS          | USB3                                | 32      | 393 MB/s   |
| DDU1207M series                                       | CMOS                | C+M          | Area array | 4,096 x 3,000 | VIS          | Dual USB3                           | 62      | 750 MB/s   |
| DDU1607M series                                       | CMOS                | C+M          | Area array | 4,000 x 4,000 | VIS          | Dual USB3                           | 45      | 720 MB/s   |
| BU040M series   | CMOS                | C+M          | Area array | 720 x 540     | VIS          | USB3                                | 523     | 203 MB/s   |
| BU132M  | CMOS                | M            | Area array | 1,280 x 1,024 | VIS          | USB3                                | 61      | 80 MB/s    |
| BU160M series   | CMOS                | C+M          | Area array | 1,440 x 1,080 | VIS          | USB3                                | 240     | 373 MB/s   |
| BU205M  | CMOS                | C+M          | Area array | 2,048 x 1,088 | VIS          | USB3                                | 170     | 379 MB/s   |
| BU238M series   | CMOS                | C+M          | Area array | 1,920 x 1,200 | VIS          | USB3                                | 165     | 380 MB/s   |
| BU302M series   | CMOS                | C+M          | Area array | 2,048 x 1,536 | VIS          | USB3                                | 120     | 377 MB/s   |
| BU406M series   | CMOS                | C+M          | Area array | 2,048 x 2,048 | VIS, NIR     | USB3                                | 90      | 377 MB/s   |
| BU505M series   | CMOS                | C+M          | Area array | 2,448 x 2,048 | VIS          | USB3                                | 75      | 376 MB/s   |
| BU602M series   | RS-CMOS             | C+M          | Area array | 3,072 x 2,048 | VIS          | USB3                                | 60      | 384 MB/s   |
| BU1203MC series                                       | RS-CMOS             | C            | Area array | 4,000 x 3,000 | VIS          | USB3                                | 30      | 360 MB/s   |
| BU1207M series  | CMOS                | C+M          | Area array | 4,096 x 3,000 | VIS          | USB3                                | 31      | 393 MB/s   |
| BU2409M series  | CMOS                | C+M          | Area array | 5,320 x 4,600 | VIS          | USB3                                | (15)    | (367 MB/s) |
| BG040M series   | CMOS                | C+M          | Area array | 720 x 540     | VIS          | GigE                                | 291     | 113 MB/s   |
| BG160M series   | CMOS                | C+M          | Area array | 1,440 x 1,080 | VIS          | GigE                                | 72      | 112 MB/s   |
| BG205M-CS   | CMOS                | M            | Area array | 2,048 x 1,088 | VIS          | GigE                                | 50      | 111 MB/s   |
| BG302LM series  | CMOS                | C+M          | Area array | 2,048 x 1,536 | VIS          | GigE                                | 36      | 113 MB/s   |
| BG505LM series  | CMOS                | C+M          | Area array | 2,448 x 2,048 | VIS          | GigE                                | 22      | 110 MB/s   |
| BC040M series   | CMOS                | C+M          | Area array | 720 x 540     | VIS          | PoCL (Base 3taps)                   | 523     | 203 MB/s   |
| BC160M series   | CMOS                | C+M          | Area array | 1,440 x 1,080 | VIS          | PoCL (Base 3taps)                   | 148     | 230 MB/s   |
| BC302LM series  | CMOS                | C+M          | Area array | 2,048 x 1,536 | VIS          | Camera Link, PoCL (Base 3taps)      | 56      | 177 MB/s   |
| BC505LM series  | CMOS                | C+M          | Area array | 2,448 x 2,048 | VIS          | Camera Link, PoCL (Base 3taps)      | 36      | 180 MB/s   |
| CSCV125BC3  | CCD                 | M            | Area array | 648 x 494     | VIS          | PoCL (Base)                         | 126.2   | 40 MB/s    |
| CSCV125CC3  | CCD                 | C            | Area array | 640 x 480     | VIS          | PoCL (Base)                         | 127.7   | 39 MB/s    |
| CSCS60BM18  | CMOS                | M            | Area array | 1,280 x 1,024 | VIS          | PoCL (Base)                         | 61      | 80 MB/s    |
| CSC6M100BMP11   | CMOS                | M            | Area array | 2,560 x 2,560 | VIS          | Camera Link, PoCL (Full)            | 99.2    | 650 MB/s   |
| CSC6M100CMP11   | CMOS                | C            | Area array | 2,560 x 2,560 | VIS          | Camera Link, PoCL (Full)            | 99.2    | 650 MB/s   |

| 製品   | センサタイプ | カラー/<br>モノクロ | カメラタイプ     | 解像度                                 | 波長           | インタフェース                            | フレームレート | データ<br>レート  |
|--|--------|--------------|------------|-------------------------------------|--------------|------------------------------------|---------|-------------|
| Unibrain Inc / 米ユニブレイン社; www.unibrain.com  |        |              |            |                                     |              |                                    |         |             |
| Fire-i 785   | CCD    | C+M          | Area array | —                                   | IR, NIR, VIS | FireWire                           | 30      | 800<br>Mbps |
| Fire-i 980   | CCD    | C+M          | Area array | —                                   | IR, NIR, VIS | FireWire                           | 15      | 800<br>Mbps |
| UTC Aerospace Systems (Sensors Unlimited Products) / 米センサーズ・アンリミテッド社; www.sensorsinc.com |        |              |            |                                     |              |                                    |         |             |
| 1280JS   | InGaAs | M            | Area array | —                                   | SWIR         | Camera Link                        | 30      | —           |
| 1280JSX  | InGaAs | M            | Area array | 1280 × 1024                         | SWIR         | Camera Link                        | 30      | —           |
| 1280JSX  | InGaAs | M            | Area array | 1280 × 1024                         | SWIR         | Camera Link                        | 60      | —           |
| 640CSX   | InGaAs | M            | Area array | 640 × 512                           | SWIR         | Camera Link                        | 30      | —           |
| 640HS VGA  | InGaAs | M            | Area array | 640 × 512                           | SWIR         | Camera Link,<br>NTSC               | 30      | —           |
| 640HSX   | InGaAs | M            | Area array | 640 × 512                           | SWIR         | —                                  | 30      | —           |
| 320HX  | InGaAs | M            | Area array | 320 × 240 × 40                      | SWIR, NIR    | Analog,<br>Camera Link             | 60      | —           |
| 320KTS   | InGaAs | C+M          | Area array | 320 × 256                           | SWIR, VIS    | Camera Link                        | 60      | —           |
| 2048R  | InGaAs | M            | Line scan  | —                                   | SWIR         | Analog,<br>Camera Link             | —       | —           |
| Vieworks Co Ltd / 韓国ビューワークス社; www.vieworks.com   |        |              |            |                                     |              |                                    |         |             |
| VC Series  | CMOS   | C+M          | Area array | 2048 × 1088-<br>14,192 × 10,640     | VIS          | Camera Link,<br>CoaXPress          | 337.6   | —           |
| VN Series  | CMOS   | C+M          | Area array | 15,360 × 15,360-<br>23,760 × 18,012 | VIS          | Camera Link,<br>CoaXPress          | 72      | —           |
| VP Series  | CMOS   | C+M          | Area array | 6576 × 4384-<br>14,192 × 10,640     | VIS          | Camera Link<br>CoaXPress           | 30      | —           |
| VNP Series   | CMOS   | C+M          | Area array | 6576 × 4384-<br>23,760 × 18,102     | VIS          | Camera Link,<br>CoaXPress          | 30      | —           |
| VX Series  | CMOS   | C+M          | Area array | 5120 × 5120-<br>6576 × 4384         | VIS          | Camera Link,<br>GigE               | 4.7     | —           |
| VT Series - M42  | —      | M            | TDI        | 3200 × 32-<br>6560 × 256            | VIS          | Camera Link,<br>CoaXPress<br>GigE  | —       | 250 kHz     |
| VT Series - M72  | —      | M            | TDI        | 4096 × 64-<br>17,824 × 256          | VIS          | Camera Link,<br>CoaXPress          | —       | 250 kHz     |
| VT Series - M95  | —      | M            | TDI        | 16,384 × 256-<br>23,360 × 256       | VIS          | CoaXPress                          | —       | 140 kHz     |
| VS Series  | CMOS   | M            | Area array | 2048 × 1150                         | —            | USB3                               | 79.4    | —           |
| VQ Series  | CMOS   | M            | —          | 728 × 544-<br>5472 × 3648           | —            | GigE                               | 291     | —           |
| VTC Series   | —      | C            | TDI        | —                                   | —            | Camera Link,<br>CoaXPress,<br>GigE | —       | 140 kHz     |
| Vision & Control GmbH / 独Vision & Control社; www.vision-control.com                       |        |              |            |                                     |              |                                    |         |             |
| pictor M1606E  | CCD    | M            | Area array | 640 × 480                           | VIS          | Ethernet,<br>RS-232                | 63      | —           |
| pictor M1617E  | CCD    | M            | Area array | 1024 × 768                          | VIS          | Ethernet,<br>RS-232                | 20      | —           |
| pictor M1817E  | CCD    | M            | Area array | 1024 × 768                          | VIS          | Ethernet,<br>RS-232                | 20      | —           |
| pictor M1821E  | CCD    | M            | Area array | 1600 × 1200                         | VIS          | Ethernet,<br>RS-232                | 10      | —           |
| pictor M1856E  | CCD    | M            | Area array | 640 × 480                           | VIS          | Ethernet,<br>RS-232                | 242     | —           |

| 製品   | センサタイプ        | カラー /<br>モノクロ | カメラタイプ     | 解像度                        | 波長                                    | インターフェース                                     | フレームレート               | データ<br>レート      |
|--|---------------|---------------|------------|----------------------------|---------------------------------------|--|-----------------------|-----------------|
| pictor N   | CMOS          | C             | —          | 1600 × 1200                | VIS                                   | Digital I/O,<br>Ethernet,<br>RS-232          | —                     | —               |
| Vision Components GmbH / 独ビジョン・コンポーネンツ社; www.vision-components.com |               |               |            |                            |                                       |  |                       |                 |
| MIPI Camera Module   | CMOS          | C+M           | Area array | ≤4072 × 3046               | NIR                                   | MIPI CSI-2                                   | ≤530                  | —               |
| VCSBC Nano Z 00xx  | CMOS          | C+M           | Area array | 1600 × 1200                | NIR, VIS                              | Digital I/O,<br>Ethernet,<br>GigE, RS-232    | 60-230                | —               |
| VCSBC nano Z-RH 0010<br>Embedded OEM Vision<br>System              | CMOS          | C+M           | Area array | 736 × 480                  | NIR                                   | Ethernet, R<br>S-232                         | 134                   | —               |
| VC nano Z-LED Series   | CMOS          | C+M           | Area array | ≤1920 × 1200               | NIR, VIS                              | Digital I/O,<br>Ethernet,<br>RS-422/<br>LVDS | ≤174                  | —               |
| VC pro Z Series SoC<br>based Smart Camera<br>family                | CMOS          | C+M           | Area array | ≤1920 × 1200               | NIR, VIS                              | Digital I/O,<br>Ethernet,<br>RS-232          | ≤174                  | —               |
| VC nano 3D-Z Embedded<br>Laser Triangulation<br>Scanner            | CMOS          | M             | Line scan  | 1440 × 1080                | NIR                                   | Digital I/O,<br>Ethernet,<br>GigE, RS-232    | —                     | 2 MHz           |
| VC nano Z 0252<br>Embedded Vision System                           | CMOS          | C+M           | Area array | 2048 × 1536                | NIR                                   | Ethernet,<br>RS-232                          | 88                    | —               |
| VCSBC nano Z-RH-2<br>0015  | CMOS          | C+M           | Area array | ≤1920 × 1200               | NIR                                   | Digital I/O,<br>Ethernet,<br>GigE, RS-232    | ≤174                  | —               |
| Vision Research / 米ビジョン・リサーチ社; www.phantomhighspeed.com            |               |               |            |                            |                                       |  |                       |                 |
| Phantom Ultrahigh-Speed<br>Cameras                                 | CMOS          | C+M           | —          | 1280 × 800,<br>128 × 16    | VIS                                   | Digital I/O,<br>Ethernet                     | 12,600,<br>≤1,000,000 | —               |
| PhantomVEO Family  | CMOS          | C+M           | —          | —                          | VIS                                   | Digital I/O,<br>Ethernet,<br>HD-SDI          | 800-<br>1,000,000     | —               |
| Phantom Miro Family  | CMOS          | C+M           | —          | 1280 × 800                 | VIS                                   | Digital I/O,<br>Ethernet                     | 3000                  | —               |
| Phantom 4K and Media<br>Production                                 | CMOS          | C+M           | —          | 4096 × 2304,<br>1280 × 720 | VIS                                   | Digital I/O,<br>Ethernet,<br>HD-SDI          | 938, ≤2932            | —               |
| Phantom Miro C-Series  | CMOS          | C+M           | —          | —                          | VIS                                   | Digital I/O,<br>Ethernet                     | 800-67,140            | —               |
| Phantom Miro N-Series  | CMOS          | C+M           | —          | —                          | VIS                                   | CoaXPress,<br>Digital I/O,<br>Ethernet       | 30-9020               | —               |
| S990   | CMOS          | C+M           | —          | —                          | —                                     | CoaXPress                                    | 1000+                 | —               |
| Phantom S200/210   | CMOS          | C+M           | —          | —                          | —                                     | CoaXPress                                    | 7000                  | —               |
| VRmagic Imaging GmbH / 独VRマジックイメージング社; www.vrmagic-imaging.com     |               |               |            |                            |                                       |  |                       |                 |
| LineScan 3D Sensor<br>Product Family                               | 3D            | M             | Line scan  | —                          | VIS                                   | GigE   | —                     | —               |
| RIC10 Camera Family  | CMOS          | C+M           | Area array | —                          | VIS                                   | Ethernet, 10<br>GigE, 5 GigE                 | 170-340<br>(full)     | 10 Gbps         |
| XpectralTEK / ボルトガルXpectralTEK社; www.xpectraltek.com               |               |               |            |                            |                                       |  |                       |                 |
| XpeCAM X01   | Multispectral | M             | Area array | 5 MPixels                  | IR,<br>Multispectral,<br>NIR, UV, VIS | USB3   | 15                    | —               |
| Zivid / ノルウェー Zivid社; www.zivid.com                                |               |               |            |                            |                                       |  |                       |                 |
| Zivid One Plus   | 3D            | C+M           | Area array | 1920 × 1200                | VIS                                   | USB3   | —                     | 13 Hz<br>(full) |

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Please visit [www.vision-systems.com](http://www.vision-systems.com) for the comprehensive online Camera Directory listings.