

CAMERA MANUFACTURERS

Product	Sensor type	Color/Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Active Silicon Ltd Iver, UK; 44-1753-650600; www.activesilicon.com; sales@activesilicon.com								
Harrier 36x AF-Zoom Camera Global Shutter	CMOS	C+M	Area array	1280 × 1024	VIS	LVDS, 3G/HD-SDI, USB/HDMI, HDMI, IP H2.64	30, 60	—
Harrier 10x AF-Zoom Camera	CMOS	C+M	Area array	1920 × 1080	VIS	LVDS, 3G/HD-SDI, USB/HDMI, HDMI, IP H2.64	60	—
Harrier 18x AF-Zoom HDMI 4K Camera	CMOS	C+M	Area array	<3840 × 2160 (4K)	VIS	LVDS, 3G/HD-SDI, USB/HDMI, HDMI, IP H2.64	30 (4K), 60 (Full HD)	—
Harrier 40x AF-Zoom Camera	CMOS	C+M	Area array	1920 × 1080	VIS	HDMI, CVBS	60	—
ADLINK Technology Inc San Jose, CA, USA; 800-966-5200; www.adlinktech.com; info@adlinktech.com								
NEON-1000-MDX: Movidius Myriad X-based, Industrial AI Smart Camera	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JT2: NVIDIA Jetson TX2-based, Industrial AI Smart Camera	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JT2-X: NVIDIA Jetson TX2-based, IP67 Industrial AI Smart Camera	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JNX: NVIDIA Jetson Xavier NX-based, Industrial AI Smart Camera	CMOS	C	Area array	1280 × 960–3840 × 2160	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3, MIPI CSI-2	14–60	—
NEON-1000-MDX: AI Smart Camera Starter Kit	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JT2: AI Smart Camera Starter Kit	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JT2-X: AI Smart Camera Starter Kit	CMOS	C	Area array	1280 × 960–2592 × 1944	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3	14–60	—
NEON-2000-JNX: AI Smart Camera Starter Kit	CMOS	C	Area array	1280 × 960–3840 × 2160	VIS	Digital I/O, Ethernet GigE, USB Type-C port, Micro-USB, microSD Slot, USB3, MIPI CSI-2	14–60	—
Allied Vision Technologies GmbH Stadtroda, Germany; 49-36428-677-0; www.alliedvision.com; info@alliedvision.com								
Alvium Camera Series	CMOS	C+M	Area array	0.4–20.2 Mpixels	NIR, VIS	MIPI CSI-2, USB3	≤281	—
Mako	CCD & CMOS versions	C+M	Area array	0.3–5 Mpixels	NIR, VIS	GigE	≤550	—
Manta	CCD & CMOS versions	C+M	Area array	0.3–12 Mpixels	NIR, VIS	GigE	≤125	—
Prosilica GT	CCD & CMOS versions	C+M	Area array	1.3–29 Mpixels	NIR, VIS	GigE	≤62	—
Goldeye	InGaAs	M	—	—	SWIR	Camera Link, GigE	≤344	—
Bonito PRO	CMOS	C+M	Area array	12.5–26.2 Mpixels	NIR, VIS	CoaXPress	≤142.6	—
Alkeria Srl Cascina, (PI), Italy; 39-050-778-060; www.alkeria.com; sales@alkeria.com								
ARIA	CMOS	C+M	Area array	0.4–2 Mpixels	NIR, VIS	USB3	522	—
CELERA One	CMOS	C+M	Area array	2–12 Mpixels	NIR, VIS	USB3	175	—
CELERA	CMOS	C+M	Area array	2–12 Mpixels	NIR, VIS	Dual-USB3	337	—
NECTA	CMOS	C+M	Linescan	2–8K	NIR, VIS	USB3	—	95 kHz
NECTA S	InGaAs	M	Linescan	0.5–1K	SWIR	USB3	—	40 kHz

This table is published as a service. The publisher does not assume liabilities for errors or omissions. Please visit www.vision-systems.com/directory for the comprehensive online company listings.

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
ARCURE Pantin, France; 33-6-30-73-47-21; www.arcure.net; anthime.ferrieu@blaxtair.com								
Omega	3D	C+M	Area array	1024 × 512	VIS	Ethernet, GigE	25, depending on configuration	—
Avaldata Corp Yongin-si, Gyeonggi-do, South Korea; 82-70-7019-1420; www.aval-global.com; sales@aval-global.com								
ABA-013VIR	InGaAs	M	Area array	1280 × 1024	SWIR, VIS	Camera Link, GigE	134.73 (CL), 60 (GigE)	—
ABA-003VIR	InGaAs	M	Area array	640 × 512	SWIR, VIS	Camera Link, GigE	258.8 (CL), 240 (GigE)	—
ABA-003IR	InGaAs	M	Area array	640 × 512	SWIR	Camera Link, GigE	62	—
ABA-001IR	InGaAs	M	Area array	320 × 256	SWIR	Camera Link, GigE	228	—
ABL-010IR	InGaAs	M	Linescan	1024 × 1	SWIR	Camera Link, GigE	—	40 kHz
AHS-003VIR	InGaAs	M	Linescan	640 × 512	Hyperspectral, SWIR, VIS	Camera Link, GigE	258 (Full band), 2767 (8 band)	—
Basler AG Ahrensburg, Germany; 49-4102-463-500; www.baslerweb.com; sales.europe@baslerweb.com								
Basler ace 2	CMOS	C+M	Area array	1920 × 1200–3840 × 2160	VIS	GigE, USB3	≤160	—
Basler ace classic	CCD & CMOS versions	C+M	Area array	658 × 492–4608 × 3288	NIR, VIS	Camera Link, GigE, USB3	≤340	—
Basler ace U	CMOS	C+M	Area array	640 × 480–5472 × 3648	VIS	GigE, USB3	≤751	—
Basler ace L	CMOS	C+M	Area array	4096 × 2160–4096 × 3000	VIS	GigE, USB3	≤42	—



Industrial AI Smart Camera for AI Vision at the Edge

NEON-1000-MDX Series

Powered by Intel Atom® E3930, and Movidius™ Myriad™ X VPU



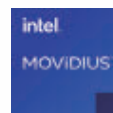
Simplified System Integration



Worry-Free Reliability



Optimized for AI Vision



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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Basler AG Ahrensburg, Germany; 49-4102-463-500; www.baslerweb.com; sales.europe@baslerweb.com								
Basler boost	CMOS	C+M	Area array	4096 × 2168– 4096 × 3000	VIS	CoaXPress 2.0	≤93	—
Basler blaze	CMOS	M	Area array	640 × 480	NIR	GigE	30	—
Basler dart	CMOS	C+M	Area array	1280 × 960– 4208 × 3120	VIS	MIPI, LVDS, USB3	14–60	—
Basler pulse	CMOS	C+M	Area array	1280 × 960– 2592 × 1944	VIS	USB3	≤60	—
Basler beat	CMOS	C+M	Area array	4088 × 3070, 4096 × 3072	VIS	Camera Link	62	—
MED ace	CMOS	C+M	Area array	1920 × 1200, 2448/2590 × 2048, 4096 × 2160/3000, 5472 × 3648	VIS	USB3, GigE	≤164	—
Basler pilot	CCD	C+M	Area array	646 × 488– 1608 × 1204	VIS	GigE	≤60	—
Basler scout	CCD & CMOS versions	C+M	Area array	658 × 492– 1626 × 1236	VIS	GigE	≤70	—
Basler racer	CMOS	M	Linescan	2048 × 1 4096 × 1, 6144 × 1, 8192 × 1, 12,288 × 1	VIS	Camera Link, GigE	—	≤80 kHz
Baumer Optronic GmbH Radeberg, Germany; 49-3528-43-86-0; www.baumer.com/vision; sales@baumeroptronic.com								
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, 10GigE, Dual GigE, GigE	≤337	—
QX series	CMOS	C+M	Area array	—	—	10GigE	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 vision sensors	CMOS	M	Area array	752 × 480	—	Digital I/O, Ethernet	>8000	—
VeriSens XC vision sensors	CCD	C+M	Area array	VGA–2 Mpixels	—	Digital I/O, Ethernet	>8000	—
VeriSens IP 69K vision sensors	CMOS	M	Area array	752 × 480	—	Digital I/O, Ethernet	>8000	—
Baumer CX.I cameras	CMOS	C+M	Area array	—	—	GigE	—	—
Chromasens GmbH Konstanz, Baden Württemberg, Germany; 49-7531-876-0; www.chromasens.de; info@chromasens.de								
allPIXA evo 8k CXP	CMOS	C	Linescan	8192 × 16	NIR, VIS	CoaXPress	—	100 kHz
allPIXA evo 10k CXP	CMOS	C	Linescan	10,240 × 3	VIS	CoaXPress	—	68.4 kHz
allPIXA evo 15k CXP	CMOS	C	Linescan	15,360 × 3	VIS	CoaXPress	—	68.4 kHz
allPIXA evo 8k DXGE	CMOS	C	Linescan	8192 × 16	NIR, VIS	Dual 10GigE	—	90 kHz
allPIXA evo 10k DXGE	CMOS	C	Linescan	10,240 × 3	VIS	Dual 10GigE	—	68.4 kHz
allPIXA evo 15k DXGE	CMOS	C	Linescan	15,360 × 3	VIS	Dual 10GigE	—	49 kHz
allPIXA wave–10k	CMOS	C+M	Linescan	10,240 × 3	VIS	Camera Link	—	25.33 kHz
allPIXA wave–15k	CMOS	C+M	Linescan	15,360 × 3	VIS	Camera Link	—	18.38 kHz
allPIXA SWIR 512	InGaAs	—	Linescan	512 × 1	IR	Camera Link, Ethernet	—	40 kHz
allPIXA SWIR 1k	InGaAs	—	Linescan	1024 × 1	IR	Camera Link, Ethernet	—	40 kHz
allPIXA Pro 2k, 4k, 7k	CCD	C	Linescan	2048/4096/ 7300 × 3	VIS	Camera Link	—	≤92.8 kHz
chromaPIXA 2k, 4k, 7k	CCD	C	Linescan	2048/4096/ 7300 × 3	VIS	Camera Link	—	≤92.8 kHz
3DPIXA wave compact 12µm	3D	C	Linescan	6250 × 3	VIS	Camera Link	—	18.4 kHz
3DPIXA Dual 10µm	3D	C	Linescan	15,360 × 3	VIS	Camera Link	—	18.4 kHz
3DPIXA Pro Dual 200µm	3D	C	Linescan	7000 × 3	VIS	Camera Link	—	29.7 kHz

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CMICRO Corp Takamatsu, Kagawa, Japan; 81-87-869-8310; www.cmicro.co.jp/en; support@cmicro.co.jp								
FXS800A	CMOS	M	Linescan	8192	VIS	CoaXPress	—	72.4 kHz
RSB400H	CMOS	C	Linescan	4096 × 3	VIS	Camera Link	—	34 kHz
FCS16KA	CMOS	M	Linescan	16,384	VIS	Camera Link	—	40.6 kHz
NDB100H	InGaAs	M	Linescan	1024 × 2	Multispectral, SWIR	Camera Link, GigE	—	40 kHz
KFB200	3D	M	Area array	2048 × 1088	VIS	Camera Link, Ethernet	—	3.2 kHz
Cognex Natick, MA, USA; 508-650-3000; www.cognex.com; news@cognex.com								
In-Sight 7000 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	—	10 kHz
In-Sight D900	CMOS	C+M	Area array	2448 × 2048 (5 Mpixels), 1920 × 1200 (2.3 Mpixels)	VIS	Ethernet	16–51	—
Contrast Inc Albuquerque, NM, USA; 505-872-2123; www.contrastoptical.com; info@contrastoptical.com								
LUX HDR Camera	CMOS	C	Area array	18 Mpixels	NIR, VIS	Digital I/O, Ethernet, GigE, USB3, DPP	30–120	255 Mp/s
ARC HDR Camera	CMOS	C	Area array	18 Mpixels	NIR, VIS	Digital I/O, Ethernet, GigE, USB3, DPP	30–120	255 Mp/s
VIA Smart Camera	CMOS	C	Area array	18 Mpixels	NIR, VIS	Digital I/O, Ethernet, GigE, USB3, DPP	30–120	255 Mp/s
Critical Link LLC Syracuse, NY, USA; 315-425-4045; www.criticallink.com; info@criticallink.com								
MityCAM-CSG14K	CMOS	C+M	Area array	3856 × 3600	VIS	Camera Link, Camera Link Full, Ethernet, GigE, HDMI, USB 1.0/2.0, USB3	110	—
MityCAM-B2521F / B1910F	CMOS	C+M	Area array	2560 × 2160	Multispectral, NIR, VIS	Camera Link, Ethernet, GigE, USB 1.0/2.0	100	—
Canon CMOS Sensor Evaluation Kits	CMOS	C+M	Area array	—	Multispectral, NIR, VIS	Camera Link, Camera Link Full, Digital I/O, Ethernet, GigE, HDMI, USB 1.0/2.0, USB3	≤120	—
MityCCD-H11850 / H16011	CCD	M	Area array	—	NIR	Camera Link, Ethernet, GigE	—	—
MityCAM-H13241	CCD	M	Area array	2048 × ≤506	UV	Camera Link, CoaXPress, Ethernet, GigE, USB 1.0/2.0, USB3	—	10 MHz
Cubert GmbH Ulm, Germany; 49-731-708156-00; https://cubert-gmbh.com; contact@cubert-gmbh.de								
FirefIEYE S185 Hyperspectral Camera	CCD	C+M	Area array	50 × 50 (Spectral), 1000 × 1000 (Panchromatic)	Hyperspectral	GigE	15	—
ULTRIS Hyperspectral Camera	CMOS	C	Area array	410 × 410	Hyperspectral	GigE	8	—
ULTRIS Plus Hyperspectral Camera	CMOS	C+M	Area array	410 × 410 (Spectral), 1880 × 1880 (Panchromatic)	Hyperspectral	GigE	8	—
D3 Engineering LLC Rochester, NY, USA; 595-429-1550; www.d3engineering.com; sales@d3engineering.com								
DesignCore D3RCM-IMX390-953 Rugged Camera Module	CMOS	C	Area array	1920 × 1200	VIS	FPD-Link III	60	—
DesignCore D3CM-IMX490 Camera Module	CMOS	C	Area array	2880 × 1860	VIS	FPD-Link III, GMSL2	40	—
DesignCore D3CM-AR0234CS Camera Module	CMOS	C	Area array	1920 × 1200	VIS	FPD-Link III, GMSL2	120	—
DesignCore D3CM-AR0821CS Camera Module	CMOS	C	Area array	3848 × 2169	VIS	FPD-Link III, GMSL2	40	—
DesignCore D3TCM-9036 Time of Flight Camera Module	ToF	M	Area array	640 × 480	NIR	GMSL2, MIPI CSI-2	30	—

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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Datalogic USA Inc Eugene, OR, USA; 800-227-2633; www.datalogic.com; marketing.na@datalogic.com								
Matrix 220	CMOS	M	Area array	WVGA-1.2 Mpixels	VIS	Digital I/O, Ethernet, RS-232	45	—
P Series	CMOS	C+M	—	—	—	Ethernet, RS-232	60-120	—
e-con Systems San Jose, CA, USA; 408-766-7503; www.e-consystems.com; dharmalingam.k@e-consystems.com								
STURDeCAM25-IP67 rated GMSL2 Global Shutter Camera	CMOS	C	—	—	VIS	GMSL2	120	—
See3CAM_CU81-8MP HDR USB camera	CMOS	C	—	—	VIS	USB 3.0/2.0	60	—
See3CAM_160-16MP Autofocus USB camera	CMOS	C	—	—	VIS	USB 3.0/2.0	30	—
e-CAM83_CUMI415_MOD- 8MP Ultra-lowlight camera	CMOS	C	—	—	VIS	MIPI CSI-2/2.0	90	—
e-CAM217_CUMI0234_ MOD-Full HD Global Shutter camera	CMOS	C	—	—	VIS	MIPI CSI-2	120	—
Emergent Vision Technologies Inc Maple Ridge, BC, Canada; 866-780-6082; www.emergentvisiontec.com; info@emergentvisiontec.com								
HR/HT-2000	CMOS	C+M	Area array	—	NIR	10GigE	338	—
HR/HT-4000	CMOS	C+M	Area array	—	NIR	10GigE	179	—
HR/HT-5000	CMOS	C+M	Area array	—	—	10GigE	163	—
HR/HT-20000	CMOS	C+M	Area array	—	—	10GigE	32	—
HR/HT-50000	CMOS	C+M	Area array	—	—	10GigE	23	—
HR/HT-12000S	CMOS	C+M	Area array	—	NIR	10GigE	80	—
HR/HT-8000S	CMOS	C+M	Area array	—	—	10GigE	110	—
PACE Series LR-8K	CMOS	C+M	Linescan	8192 × 1	—	10GigE	—	45-137 kHz
Accel Series LB-8K	CMOS	C+M	Linescan	—	—	25GigE	—	66-200 kHz
Bolt Series HB-30000 Sony IMX342	CMOS	C+M	Area array	—	—	25GigE	35.4	—
HZ-21000-G	CMOS	C+M	Area array	5120 × 4096	—	100GigE	400-600	—
HB-25000-SB	CMOS	C+M	Area array	5320 × 4600	—	25GigE	98	—
HZ-100-G	CMOS	C+M	Area array	11,276 × 9200	—	100GigE	—	103.7 MP
EPiX Inc Buffalo Grove, IL, USA; 847-465-1818; www.epixinc.com; epix@epixinc.com								
SILICON VIDEO 25	CMOS	C+M	Area array	5120 × 5120	VIS	Camera Link, Camera Link Extended-Full	212	1000 MHz
SILICON VIDEO 20	CMOS	C+M	Area array	5120 × 3684	VIS	Camera Link, Camera Link Extended-Full	30-240	—
SILICON VIDEO 1820CL	CMOS	C	Area array	4608 × 3288	VIS	Camera Link, Camera Link Extended-Full, Camera Link Extended, Camera Link Full, LVDS	24	4360 Mbps
SILICON VIDEO 10C6 & 10M6	CMOS	C	Area array	3840 × 2764	VIS	LVDS	7	1000 MHz
SILICON VIDEO 5C10/5M10	CMOS	C+M	Area array	2592 × 1944	VIS	LVDS	10	700 MHz
SILICON VIDEO 1C45, 1M45	CMOS	C+M	Area array	1280 × 960	VIS	LVDS	45-1200	1000 MHz
SVWGAC or SVWGAM	CMOS	C+M	Area array	752 × 480	VIS	LVDS	60-1338	1000 MHz
SILICON VIDEO 035	CMOS	C	Area array	640 × 480	VIS	Analog, NTSC, NTSC/ PAL/RS-170, PAL	30	768 kHz
SILICON VIDEO 9M001	CMOS	M	Area array	1280 × 1024	VIS	LVDS	43	600 kHz
eYs3D Microelectronics Co Taipei, Taiwan; 886-2-8751-3803; www.eyes3d.com; sales@eyes3d.com								
Lifesense Depth Camera G100	CMOS	C	Area array	1280 × 720	IR	USB3	60	—
Lifesense Depth Camera G53	CMOS	C	Area array	640 × 400	IR	USB 1.0/2.0	30	—

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Fastec Imaging Corp San Diego, CA, USA; 858-592-2342; www.fastecimaging.com; sales@fastecimaging.com								
TS5 High-speed Camera	CMOS	C+M	Area array	2560 × 2048	VIS	Digital I/O, Ethernet, GigE, USB 1.0/2.0	253	1325 MHz
Fastec IL5	CMOS	C+M	Area array	2560 × 2048	VIS	Digital I/O, Ethernet, GigE, USB 1.0/2.0	253	1325 MHz
HiSpec 1 High-speed Digital Video Camera	CMOS	C+M	Area array	1280 × 1024	VIS	Ethernet, GigE	506	650 MHz
Hamamatsu Corp Bridgewater, NJ, USA; 908-231-0960; www.hamamatsu.com; photonics@hamamatsu.com								
InGaAs Line Scan Camera (C15333-10E)	InGaAs	M	Linescan	1024 × 1	NIR	GigE	—	40 kHz
InGaAs Camera (C14041-10U)	InGaAs	M	Area array	320 × 256	NIR	USB 1.0/2.0	216	—
X-Ray TDI cameras C12300 series	CCD	M	TDI	—	X-ray	Camera Link	—	0.2–30 kHz
ORCA-Fusion BT (C15440-20UP)	CMOS	M	Area array	2304 × 2304	VIS	CoaXPress 2.0, Digital I/O, USB3	89/31	—
ORCA-Fusion (C14440-20UP)	CMOS	M	Area array	—	VIS	CoaXPress, Digital I/O, USB3	89/31	—
Headwall Photonics Inc Bolton, MA, USA; 978-353-4100; www.headwallphotonics.com; marketing@headwallphotonics.com								
Hyperspec MVX imaging system	CMOS	C+M	Linescan	—	Hyperspectral, NIR	Ethernet	—	—
HinaLea Imaging Emeryville, CA, USA; 808-878-8247; www.hinaleaimaging.com; info@hinalaimaging.com								
4200m	CMOS	C+M	Area array	—	Hyperspectral, NIR	GigE, USB3	—	—
4250	CMOS	C	Area array	—	Hyperspectral, NIR	GigE, USB3	—	—
4400	CMOS	C	Area array	—	Hyperspectral, SWIR	GigE, USB3	—	—
Hitachi Kokusai Electric America Ltd Southwick, MA, USA; 330-334-4115 www.hitachikokusai.us/industrialvisionsystems								
KP-FM1200WCL	CMOS	C+M	Area array	4096 × 3000	VIS	Camera Link	67	60 Hz
KP-F230SCL	CMOS	C+M	Area array	1628 × 1263	VIS	GigE, USB3, Camera Link	30	60 Hz
HV-F130SCL	3CCD	C	Area array	1680 × 960	VIS	Camera Link, GigE, RGB	30	60 Hz
HV-UHD301-S1	CMOS	C	Area array	3840 × 2160	VIS	4K, HD-SDI	30	50, 60 Hz
KP-HD20A	CMOS	C	Area array	1920 × 1080	VIS	Analog, HD-SDI	30, 60	50, 60 Hz
HySpex by NEO Oslo, Norway; 47-40-00-18-58; www.hyspex.com; hyspexsales@neo.no								
Baldur S-384N	MCT	M	Linescan	—	Hyperspectral, SWIR	Camera Link, LVDS, 5V/12V/24V TTL	650	—
Baldur S-640iN	InGaAs	M	Linescan	—	Hyperspectral, NIR, SWIR	GigE, LVDS, 5V/12V/24V TTL	500	—
Baldur V-1024N	CMOS	M	Linescan	—	Hyperspectral, NIR, VIS	Camera Link	1000	—
IDS Imaging Development Systems GmbH Obersulm, Germany; 49-7134-96196-0; www.ids-imaging.com; info@ids-imaging.com								
IDS NXT rio & rome	CMOS	C+M	Area array	1440 × 1088–3088 × 2076	VIS	Digital I/O, GigE, RS-232	—	—
Ensenso X camera family	CMOS	M	Area array	1456 × 1088, 2448 × 2048	VIS	Digital I/O, GigE	—	—
Ensenso N camera family	CMOS	M	Area array	1280 × 1024	NIR, VIS	Digital I/O, GigE	—	—
GigE uEye CP camera family	CMOS	C+M	Area array	800 × 600–4912 × 3684	NIR, VIS	Digital I/O, GigE	≤396	—
USB 3 uEye CP camera family	CMOS	C+M	Area array	800 × 600–5536 × 3692	NIR, VIS	Digital I/O, USB3	≤251	—
GigE uEye FA camera family	CMOS	C+M	Area array	800 × 600–5536 × 3692	VIS	Digital I/O, GigE	≤205	—
USB 3 uEye LE camera family	CMOS	C+M	Area array	808 × 608–4912 × 3684	NIR, VIS	Digital I/O, USB3	≤230	—
GigE uEye SE camera family	CMOS	C+M	Area array	800 × 600–5536 × 3692	NIR, VIS	Digital I/O, GigE	≤205	—
USB 3 uEye SE camera family	CMOS	C+M	Area array	800 × 600–5536 × 3692	VIS	Digital I/O, USB3	≤251	—

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
IDS Imaging Development Systems GmbH Obersulm, Germany; 49-7134-96196-0; www.ids-imaging.com; info@ids-imaging.com								
GigE uEye LE camera family	CMOS	C+M	Area array	808 × 608– 4912 × 3684	NIR, VIS	Digital I/O, GigE	≤50	—
USB 3 uEye ML camera family	CMOS	C+M	Area array	1280 × 1024– 2560 × 1920	NIR, VIS	Digital I/O, USB3	≤60	—
USB 2 uEye SE camera family	CMOS	C+M	Area array	1280 × 1024– 2560 × 1920	NIR, VIS	Digital I/O, USB 1.0/2.0	≤26	—
USB 2 uEye LE camera family	CMOS	C+M	Area array	1280 × 1024– 2560 × 1920	NIR, VIS	Digital I/O, USB 1.0/2.0	≤26	—
USB 3 uEye XLE camera family	CMOS	C+M	Area array	1920 × 1200, 2592 × 1944	NIR, VIS	Digital I/O, USB3	≤73	—
Ensenso XR camera family	CMOS	M	Area array	1456 × 1088, 2448 × 2048	VIS	Digital I/O, GigE	—	—
Ensenso S camera family	CMOS	M	Area array	1456 × 1088	NIR	Digital I/O, GigE	—	—
IMPERX Boca Raton, FL, USA; 561-989-0006; www.imperx.com; sales@imperx.com								
65 MP C9440 CMOS Cheetah camera	CMOS	C+M	Area array	—	NIR	CoaXPress	34.7	—
31MP C6440 CMOS Cheetah camera	CMOS	C+M	Area array	—	NIR	CoaXPress, 10GigE	35.4	—
20MP C4440 CMOS Cheetah camera	CMOS	C+M	Area array	—	NIR	CoaXPress, 10GigE	43	—
17 MP C5440 CMOS Cheetah camera	CMOS	C+M	Area array	—	NIR	CoaXPress, 10GigE	61.3	—
31MP C6410 CMOS Cheetah camera (optional Thermal Electric Cooler)	CMOS	C+M	Area array	—	NIR	Camera Link, PoE	3.7	—
20MP C4410 CMOS Cheetah camera (optional Thermal Electric Cooler)	CMOS	C+M	Area array	—	NIR	Camera Link, PoE	6	—
17MP C5410 CMOS Cheetah camera (optional Thermal Electric Cooler)	CMOS	C+M	Area array	—	NIR	Camera Link, PoE	7	—
2MP SDI C1911 CMOS Cheetah camera	CMOS	C+M	Area array	—	NIR	3G-SDI	60	—
InfraTec GmbH Infrarotsensorik und Messtechnik Dresden, Germany; 49-351-871-8630; www.infratec.de; thermo@infratec.de								
Cooled high-end infrared camera ImagerR 9300	FPA	—	Area array	1280 × 1024	MWIR	Camera Link, Digital I/O, 10 GigE, GigE, HDMI, RS-232	—	106–3200 Hz
Infrared camera ImagerR 8300 hp series	FPA	—	Area array	640 × 512, 1280 × 1024	MWIR	Camera Link, 10 GigE, GigE, HDMI	—	355–5000 Hz
VarioCAM HD uncooled infrared camera	FPA	—	Area array	640 × 480, 1024 × 768, 1280 × 960, 2048 × 1536	IR, LWIR	Analog, Digital I/O, DVI, GigE, RS-232, S-Video, USB 1.0/2.0	—	30–240 Hz
VarioCAM HD head stationary infrared camera	FPA	—	Area array	640 × 480, 1024 × 768, 1280 × 960, 2048 × 1536	IR, LWIR, VIS	Analog, Digital I/O, DVI, GigE, RS-232, S-Video, USB 1.0/2.0	—	30–240 Hz
Infrared camera series VarioCAM HDx head	FPA	—	Area array	640 × 480	IR, LWIR	Analog, DVI, GigE, RS-232	—	50, 60 Hz
High-end cameras ImagerR 8300/9300 Z	InSb	—	Area array	640 × 512, 1280 × 1024	MWIR	GigE, RS-232, USB 1.0/2.0	—	≤100 Hz
Cooled long-wave infrared camera series ImagerR	FPA	—	Area array	640 × 512	LWIR	10 GigE, GigE, RS-232, USB 1.0/2.0	—	105.000 Hz
Full HD infrared camera ImagerR 10300	InSb	—	Area array	1920 × 1536	LWIR	10 GigE, GigE, HDMI	—	113–400 Hz
ImagerR 9400 hp	InSb	—	Area array	2560 × 2048	LWIR	Camera Link, 10 GigE, GigE, HDMI	—	622 Hz
Instrument Systems GmbH Munich, Germany; 49-8945-4943-0; www.instrumentsystems.com; sales@instrumentsystems.com								
LumiCam 2400B Imaging Colorimeter	CMOS	C+M	Area array	2428 × 2028	VIS	GigE	—	—
LumiCam 1300 Imaging Colorimeter	CCD	C+M	Area array	1370 × 1020	VIS	GigE	—	—

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Instrument Systems GmbH Munich, Germany; 49-8945-4943-0; www.instrumentsystems.com; sales@instrumentsystems.com								
LumiTop X150 High-resolution Imaging Colorimeter	CMOS	C	Area array	14,192 × 10,640	VIS	CoaXPress	—	—
LumiTop 4000 Imaging Colorimeter	CMOS	C	Area array	4096 × 3000	VIS	GigE	—	—
LumiTop 2700 Imaging Colorimeter	CCD	C	Area array	2750 × 2200	VIS	GigE	—	—
IO Industries Inc London, ON, Canada; 519-663-9570; www.ioindustries.com; sales@ioindustries.com								
Victorem 4KSDI-Mini	CMOS	C+M	Area array	4096 × 2160	VIS	HD-SDI	60	—
Victorem 120B68-CV	CMOS	C+M	Area array	4096 × 3008	VIS	CoaXPress	68	—
Redwood 654G71-CX	CMOS	C+M	Area array	9344 × 7000	VIS	CoaXPress	71	—
Volucam 120B68-V	CMOS	C+M	Area array	4096 × 3008	VIS	10GigE, HD-SDI	68	—
8KSDI	CMOS	C+M	Area array	8192 × 4320	VIS	HD-SDI	60	—
iX Cameras Ltd Woburn, MA, USA; 339-645-0778; www.ix-cameras.com; info@ix-cameras.com								
i-SPEED 510	CMOS	C+M	Area array	1920 × 1080	NIR, UV, VIS	Ethernet, GigE, HDMI, HD-SDI, Proprietary, USB3	100–1,000,000	10 GPx/s
i-SPEED 513	CMOS	C+M	Area array	1920 × 1080	NIR, UV, VIS	Ethernet, GigE, HDMI, HD-SDI, Proprietary, USB3	100–1,000,000	13 GPx/s
i-SPEED 717	CMOS	C+M	Area array	2072 × 1536	NIR, UV, VIS	Proprietary	2.45 million	—
i-SPEED 721	CMOS	C+M	Area array	2072 × 1536	NIR, UV, VIS	Proprietary	2.45 million	—
i-SPEED 727	CMOS	C+M	Area array	2072 × 1536	NIR, UV, VIS	Proprietary	2.45 million	—
JADAK, a Novanta Co North Syracuse, NY, USA; 315-701-0678; www.jadaktech.com; info@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	—
JAI San Jose, CA, USA; 408-383-0300; www.jai.com; camerasales.americas@jai.com								
Sweep+ SW-8000Q	CMOS	C+M	Linescan	8192 × 1	Multispectral, NIR, VIS	GigE, 5GigE, 10GigE, Fiber Optic	—	36 kHz
GOX-8901	CMOS	C+M	Area array	4096 × 2160	VIS	GigE, USB3	13–32	—
Fusion FS-3200D	CMOS	C+M	Area array	—	Multispectral, NIR, VIS	GigE, 5GigE, 10GigE	123	—
Apex AP-3200T	CMOS	C	Area array	2064 × 1544	VIS	Camera Link, Camera Link Extended, Camera Link Full, GigE, 5GigE, 10GigE, USB3	106	—
Spark SP-45000	CMOS	C+M	Area array	8192 × 5460	VIS	CoaXPress 2.0	51	—
KAYA Instruments Neshar, Israel; 972-72-272-3500; www.kayainstruments.com; info@kayainstruments.com								
JetCam 19	CMOS	C+M	—	2.1 Mpixels	—	Camera Link HS, CoaXPress, Fiberoptic, 10GigE, Proprietary	1920–2400	—
Iron 3265 CoaXPress 12G Camera	CMOS	C+M	—	65 Mpixels	—	CoaXPress 12G	71	—
Iron 253 CoaXPress 12G Camera	CMOS	C+M	—	12 Mpixels	—	CoaXPress 12G	68	—
Iron 252 CoaXPress 12G Camera	CMOS	C+M	—	3 Mpixels	—	CoaXPress 12G	216.2	—
Iron2020BSI CoaXPress 12G Camera	CMOS	M	4 Mpixels	—	CoaXPress 12G	70	—	—
KEYENCE Corp of America Itasca, IL, USA; 888-539-3623; www.keyence.com/usa; marketing@keyence.com								
CA-H500X (5 Megapixel High Speed Area Camera)	CMOS	C+M	Area array	2432 × 2040	VIS	Proprietary	36	—
CA-HL08MX (8K Resolution High Speed Line Scan Camera)	CMOS	M	Linescan	1 × 8192	VIS	Proprietary	—	97.7 kHz

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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
KEYENCE Corp of America Itasca, IL, USA; 888-539-3623; www.keyence.com/usa; marketing@keyence.com								
XT-060 (Inline 3D Camera, 60mm FOV)	CMOS	C+M	—	3072 × 3072	VIS	Proprietary	—	—
CA-HF2100 (21 Megapixel Super High Speed Area Camera)	CMOS	C+M	Area array	5104 × 4092	VIS	Proprietary	49.5	—
CA-HF6400 (64 Megapixel High Speed Area Camera)	CMOS	C+M	Area array	8192 × 7808	VIS	Proprietary	17.4	—
LUCID Vision Labs Inc Richmond, BC, Canada; www.thinklucid.com; sales@thinklucid.com								
Helios2 ToF 3D Camera	ToF	M	Area array	640 × 480	3D	GigE, PoE+	30	—
Helios2+ ToF 3D Camera High Speed/HDR Mode	ToF	M	Area array	640 × 480	3D	GigE, PoE+	110	—
Atlas 5GBASE-T Camera 2.8 MP to 31.4 MP	CMOS	C+M	Area array	≤6464 × 4852	VIS, NIR	5GigE, PoE	≤173	—
Atlas 5GBASE-T IP67 Camera 2.8 MP to 24.5 MP	CMOS	C+M	Area array	≤5320 × 4600	VIS, NIR	5GigE, PoE	≤173	—
Phoenix Camera 0.4 MP to 20 MP	CMOS	C+M	Area array	≤5472 × 3648	VIS, NIR	GigE PoE	≤286	—
Triton Camera 0.4 MP to 24.5 MP	CMOS	C+M	Area array	≤5300 × 4600	VIS, NIR	GigE PoE	≤286	—
Triton Polarization Camera	CMOS	C+M	Area array	2448 × 2048	—	GigE, PoE	22	—
Phoenix Polarization Camera	CMOS	C+M	Area array	2448 × 2048	—	GigE, PoE	22	—
Atlas SWIR IP67 Camera	CMOS	M	Area array	1280 × 1024	SWIR	GigE, PoE+	240	—
Atlas 10GBASE-T Camera 5.0 MP to 24.5 MP	CMOS	C+M	Area array	≤5320 × 4600	VIS, NIR	GigE, 10GigE, PoE+	≤205	—
Triton Line Scan Camera	CMOS	M	Linescan	2048 × 1	VIS, NIR	GigE, PoE	—	60 kHz
Triton Edge-All-in-One Edge Computing Camera	CMOS	C+M	Area array	1440 × 1080	VIS, NIR	GigE, PoE	—	—
MATRIX VISION GmbH-Openweiler Oppenweiler, Germany; 49-7191-9432-0; www.matrix-vision.com; sales@matrix-vision.de								
rc_visard	3D	C+M	Area array	1280 × 960	VIS	Digital I/O, GigE	bis 25	—
mvBlueNAOS2	CMOS	C+M	Area array	1456 × 1088–5328 × 4608	VIS	Digital I/O, PCI Express	24.1–226.5	—
mvBlueFOX3_2	CMOS	C+M	Area array	728 × 544–5328 × 4608	VIS	Digital I/O, RS-232, USB3	15.4–436.9	—
mvBlueCOUGAR-XT	CMOS	C+M	Area array	5328 × 3040–5328 × 4608	VIS	Digital I/O, 10 GigE, RS-232	50.5–76.5	—
mvBlueCOUGAR-XD	CMOS	C+M	Area array	1456 × 1088–6480 × 4856	VIS	Digital I/O, GigE	7.5–149.9	—
mvBlueCOUGAR-X	CMOS	C+M	Area array	728 × 544–5544 × 3692	VIS	Digital I/O, GigE, RS-232	5.8–299.8	—
Matrox Imaging Dorval, QC, Canada; 800-804-6243; www.matrox.com/imaging; imaging.info@matrox.com								
Iris GTR 300	CMOS	M	Area array	640 × 480	VIS	Ethernet, GigE	293	—
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	—
Iris GTX 2000	CMOS	M	Area array	1920 × 1200	VIS	Ethernet, GigE	70	—
Iris GTX 2000 C	CMOS	C	Area array	1920 × 1200	VIS	Ethernet, GigE	17	—
Iris GTX 5000	CMOS	M	Area array	2592 × 2048	VIS	Ethernet, GigE	41.7	—
Iris GTX 5000 C	CMOS	C	Area array	2592 × 2048	VIS	Ethernet, GigE	10	—
Iris GTX 8000	CMOS	M	Area array	4096 × 2160	VIS	Ethernet, GigE	39.6	—

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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Matrox Imaging Dorval, QC, Canada; 800-804-6243; www.matrox.com/imaging; imaging.info@matrox.com								
Iris GTX 8000 C	CMOS	C	Area array	4096 × 2160	VIS	Ethernet, GigE	10	—
Iris GTX 12000	CMOS	M	Area array	4096 × 3072	VIS	Ethernet, GigE	28	—
Iris GTX 12000 C	CMOS	C	Area array	4096 × 3072	VIS	Ethernet, GigE	7	—
Iris GTX 16000	CMOS	M	Area array	4000 × 4000	VIS	Ethernet, GigE	21.6	—
Iris GTX 16000 C	CMOS	C	Area array	4000 × 4000	VIS	Ethernet, GigE	5	—
Mega Speed Corp Minnedosa, MB, Canada; 204-867-3767; www.megaspeedusa.com; sales@megaspeedusa.com								
Mega Speed MS110K	CMOS	C+M	Area array	1920 × 1080– 64 × 16	VIS	GigE	35–225,000	—
Mega Speed X4 PRO	CMOS	C+M	Area array	—	VIS	GigE	≥40,000	—
Mega Speed MS35K 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 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 Toronto, ON, Canada; 416-840-4991; www.mightex.com; sales@mightex.com								
SME-C050-U	CMOS	C	Area array	2592 × 1944	NIR, VIS	USB 1.0/2.0, USB3	14, 350 (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	—
Mikrotron GmbH Unterschleißheim, Germany; 49-8972-6342-00; www.mikrotron.de; info@mikrotron.de								
EoSens 1.1CXP2	CMOS	C+M	Area array	1280 × 864	VIS	CoaXPress 2.0	3660	3.78 GB/s
EoSens 2.0CXP2	CMOS	C+M	Area array	1920 × 1080	VIS	CoaXPress 2.0	2247	4.34 GB/s
EoSens 21CXP2	CMOS	C+M	Area array	5120 × 4096	VIS	CoaXPress 2.0	230	4.49 GB/s
EoSens Creation 2.0CXP2	CMOS	C+M	Area array	1690 × 1710	VIS	CoaXPress 2.0	2247	4.34 GB/s
EoSens CL	CMOS	C+M	Area array	1280 × 1024	VIS	Camera Link Full	506	632.5 MB/s
Mitsubishi Electric Cypress, CA, USA; 513-748-3338; www.mitsubishielectric.com/bu/contact_image/index.html; lou.fetch@meus.mea.com								
KD-AX Series	CMOS	C	Linescan	7296 × 3, 14,592 × 3, 21,888 × 3	—	Camera Link	—	11–22 kHz
KD-MX Series	CMOS	M	Linescan	7296 × 3, 14,592 × 3, 21,888 × 3	—	Camera Link	—	11–22 kHz
KD-CX Series	CMOS	C+M	Linescan	8640 × 3, 13,824 × 3, 19,008 × 3	—	CoaXPress	—	50 kHz
KD-DXL Series	CMOS	C+M	Linescan	25,056 × 3, 29,376 × 3, 39,744 × 3	—	Camera Link, Camera Link Full	—	20–53 kHz
KD-CXL Series	CMOS	C+M	Linescan	25,056 × 3, 29,376 × 3, 39,744 × 3	—	CoaXPress	—	37–45 kHz
KD-SX Series	CMOS	M	Linescan	2736 × 1	—	GigE	—	6 kHz
NET USA Inc Highland, IN, USA; 219-934-9042; www.net-usa-inc.com; info@net-usa-inc.com								
Corsight	CMOS	C+M	Area array	—	VIS	Gigabit Ethernet, USB2.0, DisplayPort, Wifi, Bluetooth, GSM, RS-232	14–216	—
GigEPRO	CMOS	C+M	Area array	—	NIR, VIS	Gigabit Ethernet	7–64	—
3iCube	CMOS	C+M	Area array	—	NIR, VIS	USB3, UVC	7.5–86	—
HDselect	CMOS	C	Area array	—	VIS	USB3, HDMI	60	—
IOflex	CMOS	C	Area array	—	VIS	USB 2.0, UVC	30	—

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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Omron Automation America Hoffman Estates, IL, USA; 224-575-6514; automation.omron.com/en/us; amy.wang@omron.com								
M Series CoaXPress Cameras	CMOS	C+M	Area array	2–12 Mpixels	VIS	CoaXPress	≤239	—
FS Series GigE Vision Cameras	CMOS	C+M	Linescan	2K, 4K, 8K	VIS	GigE Vision 2.1	—	≤51 kHz
M Series USB3 Vision Cameras	CMOS	C+M	Area array	0.4–20 Mpixels	VIS	USB3	≤527	—
M Series GigE Vision Cameras	CMOS	C+M	Area array	0.4–20 Mpixels	VIS	GigE Vision 2.1	≤282	—
Omron FJ GigE Vision System	CMOS	C+M	Area array	720 × 540, 1624 × 1240, 2448 × 2048	VIS	Digital I/O, GigE	≤282	—
Omron FH Vision System	CCD & CMOS versions	C+M	Area array	640 × 480, 720 × 540, 1600 × 1200, 2040 × 1088, 2040 × 2048, 2448 × 2048, 2592 × 1944, 4084 × 3072, 4092 × 3000, 5544 × 3692	VIS	Camera Link, Digital I/O, Ethernet, GigE, RS-232, EtherCAT	≤524	—
Omron FHV7 Smart Camera	CMOS	C+M	Area array	720 × 540, 1440 × 1080, 2048 × 1536, 2448 × 2048, 3072 × 2048, 4000 × 3000	VIS	Digital I/O, Ethernet, GigE, RS-232, EtherCAT	≤430	—
Omron HAWK MV4000 Smart Camera Series	CMOS	C+M	Area array	640 × 480, 1280 × 1024, 1920 × 1200, 2592 × 2048	VIS	Digital I/O, Ethernet, GigE, RS-232	≤240	—
Omron MicroHAWK Fxxx Smart Camera Series	CMOS	C+M	Area array	752 × 480, 1280 × 960, 2592 × 1944	VIS	Digital I/O, Ethernet, RS-232, USB 1.0/2.0	≤52	—
Opto Engineering Mantova, (MN), Italy; 39-0376-699-111; www.opto-e.com; press@opto-e.com								
COE HR AS Series	CCD & CMOS versions	C+M	Area array	—	VIS	Camera Link, Camera Link Full, USB3	4.2–27.3	—
COE-G Series	CMOS	C+M	Area array	—	VIS	GigE	7–313	—
COE-U Series	CMOS	C+M	Area array	—	VIS	USB3	23–210	—
COE HR AS-X Series	CMOS	C+M	Area array	—	VIS	GigE, Dual GigE, USB3, Camera Link	5.9–40	—
Phase One Copenhagen, Denmark; 45-36-46-0111; https://geospatial.phaseone.com								
iXM-MV100	CMOS	C+M	—	100MP 11, 664 × 8750	—	10 GigE, USB3	3.3	—
iXM-MV150F	CMOS	C+M	Area array	150MP 14, 204 × 10652	—	10 GigE, USB3	2.5	—
Photoneo sro Bratislava, Slovakia; 421-948-766-479; www.photoneo.com; sales@photoneo.com								
PhoXi 3D Scanner	CMOS	M	Area array	2064 × 1544	VIS	GigE	3–4	—
MotionCam-3D	CMOS	M	Area array	1120 × 800	VIS	GigE	20	—
Photonfocus AG Lachen, Switzerland; 41-55-451-00-00; www.photonfocus.com; sales@photonfocus.com								
MV4-D1280U-H01-GT photonSPECTRAL	CMOS	M	Area array	1280 × 1024	NIR, UV, VIS	Digital I/O, 10 GigE, 10 GigE Vision, RS-422/LVDS	18	—
MV3-D320L-T01-40-G2 photonSPECTRAL	InGaAs	M	Area array	320 × 256	SWIR	Camera Link, Digital I/O, GigE, GigE Vision, RS-422/LVDS	344	—
MV4-D1280-L01-3D07-GT photon3D	CMOS	M	Area array	1280 × 1024	VIS	Digital I/O, 10 GigE, 10 GigE Vision, RS-422/LVDS	65,600	65 kHz
MV4-D9344-G01-GT photonHIRES	CMOS	C+M	Area array	9344 × 7000	VIS	Digital I/O, 10 GigE, 10 GigE Vision, RS-422/LVDS	18	—
MV4-D1600-S01-GT photonHSPEED	CMOS	M	Area array	1600 × 1100	VIS	Digital I/O, 10 GigE, 10 GigE Vision, RS-422/LVDS	260	—

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Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Pixelink Ottawa, ON, Canada; 613-247-1211; www.pixelink.com; amy.block@navitar.com								
PL-D753 (3 MP HDR)	CMOS	C+M	Area array	1936 × 1464	NIR, VIS	USB3	141	—
PL-D755 (5 MP)	CMOS	C+M	Area array	2448 × 2048	VIS	USB3	80	—
PL-X9512 (12 MP)	CMOS	C+M	Area array	4096 × 3000	VIS	10GigE	65	—
PL-X957 (7 MP)	CMOS	C+M	Area array	3216 × 2200	VIS	10GigE	154	—
PL-X9520 (20 MP)	CMOS	C+M	Area array	4512 × 4512	VIS	10GigE	52	—
PL-X9524 (24 MP)	CMOS	C+M	Area array	5328 × 4608	VIS	10GigE	44	—
Princeton Infrared Technologies Inc (PIRT) Monmouth Junction, NJ, USA; 609-917-3380; www.princetonirtech.com; sales@princetonirtech.com								
1280SciCam Scientific Camera	InGaAs Photodiode array	M	Area array	1280 × 1024	IR, Multispectral, SWIR, NIR, VIS	Camera Link	95	—
LineCam 12	InGaAs	M	Linescan	1024 × 1	IR, Multispectral, SWIR, NIR, VIS	Camera Link, USB3	—	<20k–48k lines/s
MVCam	InGaAs	M	Area array	1280 × 1024	IR, Multispectral, SWIR, NIR, VIS	Camera Link	100	—
1280BPCam	2SL	M	Area array	1280 × 1024	IR, Multispectral, E-SWIR, NIR, VIS	Camera Link	100	—
Radiant Vision Systems Redmond, WA, USA; 425-844-0152; www.radiantvisionsystems.com; info@radiantvs.com								
ProMetric I61 Imaging Colorimeter	CMOS	C+M	Area array	—	NIR, VIS	GigE, 10 GigE	—	—
ProMetric I29 Imaging Colorimeter	CCD	C+M	Area array	6576 × 4384	NIR, VIS	Ethernet, USB 1.0/2.0	—	—
ProMetric I8 Imaging Colorimeter	CCD	C+M	Area array	3296 × 2472	NIR, VIS	Ethernet, USB 1.0/2.0	—	—
ProMetric Y45 Imaging Photometer	CMOS	M	Area array	8192 × 5460	NIR, VIS	GigE	—	—
ProMetric Y16 Imaging Photometer	CCD	M	Area array	4896 × 3264	NIR, VIS	Ethernet, USB 1.0/2.0	—	—
Raptor Photonics Ltd Larnie, Co Antrim, UK; 44-282-827-0141; www.raptorphotonics.com; sales@raptorphotonics.com								
Falcon III	EMCCD	M	Area array	1000 × 1000	UV, X-ray, VIS	Camera Link	32	30 Hz
Ninox 1280	InGaAs	M	Area array	1280 × 1024	Hyperspectral, NIR, SWIR, VIS	Camera Link	60	10–60 Hz
Eagle	CCD	M	Area array	2048 × 2048, 1024 × 1024, 2048 × 512	NIR, UV, VIS, X-ray	Camera Link	—	7 Hz
Owl 320 HS	InGaAs	M	Area array	320 × 256	Hyperspectral, SWIR, VIS	Camera Link	—	349 Hz
Ninox Ultra 640 SWIR	InGaAs	M	Area array	640 × 512	NIR, SWIR, VIS	Camera Link	—	300 Hz
Schaefer+Kirchhoff GmbH Hamburg, Germany; 49-40-853997-0; www.sukhamburg.com; info@sukhamburg.de								
SK2048U3HW	CMOS	M	Linescan	—	—	USB3	—	4.56 kHz
SK7456U3TO	CCD	M	Linescan	—	—	USB3	—	5.2 kHz
SK22368U3TOC-LA	CCD	C	Linescan	—	—	USB3	—	5.13 kHz
SK6288U3KOC	CCD	C	Linescan	—	—	USB3	—	9.28 kHz
SK1024U3PD	CCD	M	Linescan	—	—	USB3	—	52.6 kHz
SK2048U3PD	CCD	M	Linescan	—	—	USB3	—	27.78 kHz
SK4096U3FD-L	CCD	M	Linescan	—	—	USB3	—	27.78 kHz
SK5150U3JR	CCD	M	—	—	—	USB3	—	7.56 kHz
SK8160U3KO-LB	CCD	M	Linescan	—	—	USB3	—	11.9 kHz
SK12240U3KOC-LB	CCD	C	Linescan	—	—	USB3	—	7.2 kHz

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
SensoPart GmbH Gottenheim, BW, Germany; 49-7665-9476-9757; www.sensopart.com; d.kult@sensopart.de								
VISOR Solar	CMOS	C+M	Area array	2560 × 1963, 1440 × 1080, 800 × 600	IR, UV, VIS	Digital I/O, Ethernet, Profinet CC-B, EtherNet/IP	≤100	—
VISOR Allround	CMOS	C+M	Area array	2560 × 1963, 1440 × 1080, 800 × 600	IR, UV, VIS	Digital I/O, Ethernet, Profinet CC-B, EtherNet/IP	≤100	—
VISOR Code Reader	CMOS	C+M	Area array	2560 × 1963, 1440 × 1080, 800 × 600	IR, UV, VIS	Digital I/O, Ethernet, Profinet CC-B, EtherNet/IP	≤100	—
VISOR Robotic	CMOS	C+M	Area array	2560 × 1963, 1440 × 1080, 800 × 600	IR, UV, VIS	Digital I/O, Ethernet, Profinet CC-B, EtherNet/IP	≤100	—
VISOR Object	CMOS	C+M	Area array	2560 × 1963, 1440 × 1080, 800 × 600	IR, UV, VIS	Digital I/O, Ethernet, Profinet CC-B, EtherNet/IP	≤100	—
SICK Inc Bloomington, MN, USA; 952-941-6780; www.sickusa.com; info@sick.com								
Ranger3	3D	M	Streaming	2560 × 832	—	Ethernet, GigE, GenICam	—	46 kHz
InspectorP611 Quality Inspection	CMOS	M	Area array	1280 × 960	—	Digital I/O, Ethernet	40–70	—
Ruler3020	3D	M	Linescan	2560 × 832	—	Ethernet, GigE, GenICam	—	46 kHz
TriSpectorP Belt Pick	3D	M	Linescan	—	—	Ethernet	—	5 kHz
TriSpector1000	3D	M	Linescan	—	—	Digital I/O, Ethernet, GenICam	—	5 kHz
Sony Europe, Image Sensing Solutions Weybridge, Surrey, United Kingdom; 44-1932-817-494; www.image-sensing-solutions.eu; matthew.swinney@eu.sony.com								
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, Camera Link Extended-Full, Camera Link Extended, Camera Link Full	35	—
XCG-CG160	CMOS	C+M	Area array	1456 × 1088	VIS	GigE	70	—
FCB-ER8550	CMOS	C	Area array	—	VIS	—	≤60	—
Sony Visual Imaging Products San Jose, CA, USA; 408-352-4445; www.visualimagingsolutions.com; vis@sony.com								
FCB-EV9500L	CMOS	C	Area array	1920 × 1080	VIS	LVDS	≤60	—
FCB-EV9500M	CMOS	C	Area array	1920 × 1080	VIS	MIPI	≤60	—
FCB-EW9500H	CMOS	C	Area array	2688 × 1512	VIS	HDMI	≤60	—
XCG-CG240C	CMOS	C	Area array	1936 × 1216	VIS	GigE	41	—
XCG-CP510	CMOS	C	Area array	2464 × 2056	VIS	GigE	23	—
SPECIM Spectral Imaging Ltd Oulu, Finland; 358-10-4244-400; www.specim.fi; info@specim.fi								
Specim FX10	CMOS	M	Linescan	—	Hyperspectral, NIR, VIS	Camera Link, GigE	330 (full), 9900 (1 band)	—
Specim FX17	InGaAs	M	Linescan	—	Hyperspectral, NIR	Camera Link, GigE	670 (full), 15,000 (4 bands)	—
Specim FX50	InSb	—	Linescan	—	Hyperspectral, MWIR	GigE	380	—
SVS-Vistek GmbH Gilching, Germany; 49-8105-3987-60; www.svs-vistek.com; info@svs-vistek.com								
EXO series	CMOS	C+M	Area array	≤6464 × 4852	Multispectral, SWIR	Camera Link, GigE, USB3	>160	—
FXO series	CMOS	C+M	Area array	≤5320 × 4600	Multispectral	CoaXPress, 10 GigE	>124	—
HR series	CMOS	C+M	Area array	—	Multispectral	Camera Link, CoaXPress, 10 GigE	>81	—
SHR series	CMOS	C+M	Area array	≤14,192 × 10,640	Multispectral	CoaXPress, 10 GigE	>17	—

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SWIR Vision Systems Inc Durham, NC, USA; 919-248-0032; www.swirvisionsystems.com; sales@swirvisionsystems.com								
Acuros CQD 1280 eSWIR Camera	InGaAs	M	Area array	1280 × 1024	IR, Multispectral, NIR, SWIR, VIS	GigE, USB3	90	—
Acuros CQD 1920 eSWIR Camera	InGaAs	M	Area array	1920 × 1080	IR, Multispectral, NIR, SWIR, VIS	GigE, USB3	60	—
Acuros CQD 640 SWIR Camera	InGaAs	M	Area array	640 × 512	IR, Multispectral, NIR, SWIR, VIS	GigE, USB3	280	—
Acuros CQD 1280 SWIR Camera	InGaAs	M	Area array	1280 × 1024	IR, Multispectral, NIR, SWIR, VIS	GigE, USB3	90	—
Acuros CQD 1920 SWIR Camera	InGaAs	M	Area array	1920 × 1080	IR, Multispectral, NIR, SWIR, VIS	GigE, USB3	60	—
Syncron Co Ltd Seoul, South Korea; 82-2-869-5461; www.syncron.co.kr; syncron@syncron.co.kr								
VP-288MX-M10 (288M Resolution Sensor)	CMOS	C+M	Area array	24,000 × 12,000	—	CoaXPress, CoaXPress 2.0	15@8 bit, 10@12 bit	—
Teledyne DALSA Waterloo, ON, Canada; 519-886-6000; www.teledynedalsa.com; tdi_sales.americas@teledyne.com								
Calibir DXM640 Series	Microbolometer	M	Area array	640 × 480	LWIR	GigE	30	—
Calibir GX Series	Microbolometer	M	Area array	640 × 480	LWIR	GigE	30, 60	—
MicroCalibir	Microbolometer	M	Area array	640 × 480	LWIR	USB2	60	—
Falcon 2M304M15	CCD	M	Area array	1600 × 1200, 1920 × 1080, 2048 × 2048	VIS	Camera Link	34, 16	—
Falcon 4M30/4M60	CMOS	C+M	Area array	2352 × 1728	VIS	Camera Link	31, 62	—
Falcon4-CLHS	CMOS	M	Area array	10,720 × 8064, 4480 × 2496	VIS	Camera Link HS	16, 330, 609	—
Genie Nano-CL Series	CMOS	C+M	Area array	2448 × 2048, 2464 × 2056, 4112 × 2176, 4112 × 3008, 4096 × 4096, 5112 × 5112	NIR, VIS	Camera Link, Camera Link Full	35,141, 88, 64, 45, 30	—
Genie Nano-CXP	CMOS	C+M	Area array	4096 × 4096, 5120 × 5120, 6144 × 6144, 8192 × 8192	NIR, VIS	CoaXPress	80, 120, 43, 30	—
Genie Nano Polarization Camera	CMOS	M	Area array	2448 × 2048	VIS	GigE	57	—
Genie Nano-1GigE Series	CMOS	C+M	Area array	672 × 512, 728 × 544, 816 × 624, 1280 × 1024, 1456 × 1088, 1608 × 1104, 1632 × 1248, 1936 × 1216, 1984 × 1264, 1936 × 1216, 2064 × 1544, 2464 × 2056, 2448 × 2048, 2592 × 2048, 4112 × 3008, 4112 × 2176, 4912 × 3684, 4096 × 4096, 5120 × 5120	NIR, VIS	GigE	862, 312, 160, 213, 150, 85, 116, 143, 93, 57, 51, 41, 56, 31, 13, 20	—

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Teledyne DALSA Waterloo, ON, Canada; 519-886-6000; www.teledynedalsa.com ; tdi_sales.americas@teledyne.com								
Genie Nano-5GigE Series	CMOS	C+M	Area array	2064 × 1544, 2464 × 2056, 4112 × 3008, 4112 × 2176, 4500 × 4500, 5420 × 5420, 8192 × 5420	VIS	5GigE	190, 141, 88, 64, 30, 19	—
Linea Series	CMOS	M	Linescan	2048 × 1, 4096 × 1, 8192 × 1, 8192 × 2, 16,384 × 1	VIS	Camera Link, Camera Link HS, GigE	—	80, 45 kHz
Linea Color Series	CMOS	C	Linescan	2048 × 2, 4096 × 2, 8192 × 2	VIS	Camera Link, GigE	—	48 kHz
Linea HS	CMOS	M	TDI	4096 × 192, 8192 × 192, 13,312 × 128, 16,384 × 128, 16,384 × 192, 32,768 × 64	NIR, VIS	Camera Link HS	—	300 kHz
Linea HS Multifield	CMOS	C	TDI	16,384 × 256	NIR, VIS	Camera Link HS	—	100 kHz × 3
Linea ML	CMOS	M	Linescan	8192 × 4, 16,384 × 4	NIR, VIS	Camera Link HS	—	300 kHz
Linea ML Color	CMOS	C	Linescan	8192 × 3, 16,384 × 3	VIS	Camera Link HS	—	100 kHz × 3
Linea ML Multispectral	CMOS	C	Linescan	8192 × 4	NIR, VIS	Camera Link HS	—	75 kHz × 4
Linea SWIR	inGaAs	M	Linescan	1024 × 1, 512 × 1	SWIR	GigE	—	40 kHz
Linea Lite	CMOS	C+M	Linescan	2048 × 2, 4096 × 2	VIS	Camera Link, GigE	50, 25 kHz	
Piranha XL Color	CMOS	C	TDI	16,352 × 12	VIS	Camera Link HS	—	70 kHz
Piranha XL XDR	CMOS	M	TDI	16,352 × 12	VIS	Camera Link HS	—	125 kHz
Piranha4 Series	CMOS	M	Linescan	2048 × 2, 4096 × 2, 8192 × 2	VIS	Camera Link	—	200/100, 100/70 kHz
Piranha4 Color Series	CMOS	C	Linescan	2048 × 3, 4096 × 3, 8192 × 3	VIS	Camera Link, Camera Link Full	—	70 kHz × 3, 50 kHz × 3
Piranha4 Multispectral	CMOS	C	Linescan	2048 × 4	NIR, VIS	Camera Link, Camera Link Full	—	70 kHz × 4
Teledyne Digital Imaging US Inc Billerica, MA, USA; 978-670-2002; www.teledynedalsa.com ; tdi_sales.americas@teledyne.com								
BOA Series	CCD	C+M	Area array	640 × 480, 1024 × 768, 1280 × 960, 1600 × 1200	VIS	Digital I/O, Ethernet, RS-232	60, 22, 22, 15	—
BOA2 XA Series	CMOS	M	Area array	1664 × 1216, 1920 × 1440, 2560 × 2048	VIS	Digital I/O, Ethernet, RS-232	80, 60, 40	—
BOA Spot Series	CMOS	C+M	Area array	640 × 480, 1280 × 960	VIS	Digital I/O, Ethernet, RS-232	45, 30	—
Teledyne e2v Milpitas, CA, USA; 855-479-1495; https://imaging.teledyne-e2v.com ; e2v-imaging.us@teledyne.com								
UNiiQA+ high-speed	CMOS	C+M	Linescan	1 × 4000, 1 × 2000, 1 × 1000	NIR, VIS	Camera Link	—	100 kHz
UNiiQA+ essential	CMOS	C+M	Linescan	1 × 4000, 1 × 2000, 1 × 1000	NIR, VIS	Camera Link	—	80, 100 kHz
UNiiQA+ high-resolution	CMOS	M	Linescan	16,000 × 1	NIR, VIS	Camera Link	—	50 kHz
UNiiQA+ NBASE-T	CMOS	C+M	Linescan	2048, 4096	NIR, VIS	GigE	—	100, 140 kHz

CAMERA MANUFACTURERS

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Teledyne e2v Milpitas, CA, USA; 855-479-1495; https://imaging.teledyne-e2v.com ; e2v-imaging.us@teledyne.com								
ELiXA+ 16k/8k	CMOS	C+M	Linescan	4 × 16,000, 2 × 8000	NIR, VIS	Camera Link, CoaXPress	—	140, 100 kHz
ELiXA+ 8k/4k	CMOS	C+M	Linescan	4 × 8000, 2 × 4000	NIR, VIS	Camera Link	—	50, 100 kHz
ELiXA+ high-speed	CMOS	M	Linescan	4 × 16,000, 4 × 11,000	NIR, VIS	Camera Link, CoaXPress	—	200 kHz
ELiXA+ 8k dual line	CMOS	M	Linescan	8192 × 2	NIR, VIS	Camera Link	—	100 kHz
ELiXA+ NBASE-T	CMOS	C+M	Linescan	2048 × 4, 4096 × 4	NIR, VIS	GigE	—	100, 140 kHz
OctoPlus OCT	CMOS	M	Linescan	2048 × 1	NIR	Camera Link, USB3	—	20, 80, 130, 250 kHz
Teledyne FLIR Machine Vision Richmond, BC, Canada; 604-242-9937; www.flir.com/mv ; mv-sales@flir.com								
Blackfly S USB3	CMOS	C+M	Area array	0.4–24.5 Mpixels	VIS	USB3	12–522	—
Blackfly S GigE	CMOS	C+M	Area array	0.4–20 Mpixels	VIS	Digital I/O, Ethernet, GigE	6.1–291	—
Oryx 10GigE	CMOS	C+M	Area array	3.2-31 Mpixels	VIS	10GigE	26–216	—
Firefly DL	CMOS	C+M	Area array	1.6 Mpixels	VIS	USB3	60	—
Firefly S	CMOS	C+M	Area array	0.4–1.6 Mpixels	VIS	USB3	60–121	—
Grasshopper3	CMOS	C+M	Area array	2.3-12.3 Mpixels	VIS	Digital I/O, Ethernet, GigE, USB3	7–163	—
Chameleon3	CMOS	C+M	Area array	1.3–5 Mpixels	VIS	Digital I/O, USB3	13–149	—
Ladybug5+	CMOS	C	Area array	30 Mpixels	VIS	Digital I/O, USB3	10 (compressed), 5 (uncompressed)	—
Teledyne FLIR LLC Wilsonville, OR, USA; 877-773-3547; www.flir.com ; sales@flir.com								
FLIR A6261 SWIR	InGaAs	M	Area array	640 × 480	SWIR	GigE, SDI	125	125 Hz (full), 25,614 Hz (max)
FLIR A6750 Series	InSb	M	Area array	640 × 512	LWIR, MWIR	GigE, SDI	125	125 Hz (full), 4175 Hz (max)
FLIR A8580 Series	InSb	M	Area array	1280 × 1024	LWIR, MWIR	GigE, CoaXPress, HD-SDI	60	60 Hz (full), 3709 Hz (max)
FLIR X6900 Series	InSb	M	Area array	640 × 512	LWIR, MWIR	GigE, CoaXPress, Camera Link, HD-SDI, HDMI, NTSC, PAL	1004	1004 Hz (full), 29,133 Hz (max)
FLIR X8500 Series	InSb	M	Area array	1280 × 1024	LWIR, MWIR	GigE, CoaXPress, Camera Link, HD-SDI, HDMI, NTSC, PAL	181	181 Hz (full), 6026 Hz (max)
FLIR Ax8	Microbolometer	M	Area array	80 × 60	LWIR	Ethernet	9	9 Hz
FLIR A310	Microbolometer	M	Area array	320 × 240	LWIR	Ethernet, NTSC, PAL	30	30 Hz
FLIR A400	Microbolometer	M	Area array	320 × 240	LWIR	GigE, WiFi	30	30 Hz
FLIR A700	Microbolometer	M	Area array	640 × 480	LWIR	GigE, WiFi	30	30 Hz
FLIR Boson	Microbolometer	M	Area array	640 × 512, 320 × 256	LWIR	USB, CMOS	60, 30, 9	60, 30, 9
FLIR Lepton	Microbolometer	M	Area array	160 × 120	LWIR	SPI	9	9
FLIR Tau 2	Microbolometer	M	Area array	640 × 512, 336 × 256	LWIR	USB, CMOS, Camera Link, Ethernet	60, 30, 9	60, 30, 9

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Teledyne Lumenera Ottawa, ON, Canada; 613-736-4077; www.teledynelumenera.com; lumenera.info@teledyne.com								
Teledyne Lumenera Lt1610 / Lt1610B	CMOS	C+M	Area array	1608 × 1104	VIS	USB3	96	—
Teledyne Lumenera Lt1630 / Lt1630B	CMOS	C+M	Area array	1632 × 1248	VIS	USB3	86	—
Teledyne Lumenera Lt1900 / Lt1900B	CMOS	C	Area array	1944 × 1096	VIS	USB3	60	—
Teledyne Lumenera Lt1950 / Lt1950B	CMOS	C+M	Area array	1936 × 1216	VIS	USB3	162	—
Teledyne Lumenera Lt2020 / Lt2020B	CMOS	C+M	Area array	2064 × 1544	VIS	USB3	55	—
Teledyne Lumenera Lt2420 / Lt2420B	CMOS	C+M	Area array	2464 × 2056	VIS	USB3	35	—
Teledyne Lumenera Lt3200 / Lt3200B	CMOS	C+M	Area array	3216 × 2208	VIS	USB3	50	—
Teledyne Lumenera Lt3840 / Lt3840B	CMOS	C+M	Area array	3840 × 2160	VIS	USB3	44	—
Teledyne Lumenera Lt4030 / Lt4030B	CMOS	C+M	Area array	4112 × 2176	VIS	USB3	31	—
Teledyne Lumenera Lt4020 / Lt4020B	CMOS	C+M	Area array	4112 × 3008	VIS	USB3	22	—
Teledyne Lumenera Lt5470	CMOS	C+M	Area array	5472 × 3084	VIS	USB3	32	—
Teledyne Lumenera Lt4430	CMOS	C+M	Area array	4432 × 4436	VIS	USB3	28	—
Teledyne Lumenera Lt5500	CMOS	C+M	Area array	5472 × 3648	VIS	USB3	19	—
Teledyne Lumenera Lt6480	CMOS	C+M	Area array	6480 × 4860	VIS	USB3	17	—
Terabee St-Genis-Pouilly, Ain, France; 33-7-50-16-64; www.terabee.com; terabee-sales@terabee.com								
Terabee 3DCam	CMOS	M	ToF	80 × 60	NIR	USB 1.0/2.0	30	—
Terabee IND-Thermal-90	Thermopile	M	Linescan	32 × 32	LWIR	Digital I/O, RS-485	—	7 Hz
Terabee 3Dcam VGA	CCD	M	ToF	640 × 480 (VGA)	NIR	Digital I/O, GigE	≤30	—
The Imaging Source LLC Charlotte, NC, USA; 704-370-0110; www.theimagingsource.com; info@theimagingsource.com								
38 Series	CMOS	C+M	Area array	4096 × 2160–4096 × 3000	NIR, VIS	GigE, USB3, Digital I/O	≤42	—
37 Series (housed & board-level)	CMOS	C+M	Area array	720 × 540–4000 × 3000	NIR, VIS	USB3, Digital I/O	≤539	—
33 Series	CMOS	C+M	Area array	720 × 540–5472 × 3648	NIR, VIS	GigE, USB3, Digital I/O	≤539	—
36 Series (Embedded)	CMOS	C+M	Area array	720 × 540–2592 × 1944	NIR, VIS	MIPI, FPD-Link III	≤120	—
DxK 39GX265-Z20	CMOS	C+M	Area array	2048 × 1536	NIR, VIS	GigE	≤36	—
Thermo Fisher Scientific Liverpool, NY, USA; 315-451-9410; www.thermofisher.com/cidtec; sales.cidtec@thermofisher.com								
MegaRAD3	CID	C+M	Area array	730 × 512	UV, VIS	USB 1.0/2.0	30	—
SpectraCAM XDR	CID	M	Area array	3048 × 2048	UV, VIS	GigE	0.5	—
Tordivel AS Oslo, Norway; 47-23-15-87-00; www.scorpionvision.com; sales@tordivel.no								
Scorpion 3D Stinger Camera	CCD & CMOS versions	C+M	—	—	NIR, UV, VIS	GigE, RS-232, Encoder	1–20	≤3 GByte/s
Scorpion 3D Scanner	CMOS	C+M	—	—	NIR, UV, VIS	Digital I/O, Ethernet, GigE, RS-232, Encoder	≤3500	≤3 GByte/s
Scorpion 3D Venom Camera	CMOS	C+M	—	—	NIR, UV, VIS	Ethernet, GigE, Encoder	1–30	≤3 GByte/s
Scorpion 2D Box Camera	CMOS	C+M	—	—	NIR, UV, VIS	Ethernet, GigE, Encoder	≤250	≤3 GByte/s
Scorpion 3D SMARTsystem	CMOS	C+M	—	—	NIR, UV, VIS	Ethernet, GigE, Encoder, OPC, Industry 4.0	≤250	≤3 GByte/s

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Toshiba Teli Corp Tokyo, Japan; 81-42-589-8771; www.toshiba-teli.co.jp/en; teli-global@toshiba-teli.co.jp								
EX670AMG-X EX360BMG-X	CMOS	C+M	Area array	8192 × 8192, 6144 × 6144	VIS	CXP-12 Quad	64.5, 115	4,329, 4,341 MB/s
DDU1607M series DDU1207M series	CMOS	C+M	Area array	4000 × 4000, 4096 × 3000	VIS	Dual USB3	47, 62	752, 750 MB/s
DU1207M series DU657M series	CMOS	C+M	Area array	4096 × 3000, 2560 × 2560	VIS	USB3	32, 55	393, 360 MB/s
BU2409M series BU1207M series	CMOS	C+M	Area array	5320 × 4600, 4096 × 3000	VIS	USB3	15, 31	367, 393 MB/s
BU160M series BU040M series	CMOS	C+M	Area array	1440 × 1080, 720 × 540	VIS	USB3	240, 523	373, 203 MB/s
BU406M series BU205M BU132M	CMOS	C+M	Area array	2048 × 2048, 2048 × 1088, 1280 × 1024	NIR, VIS	USB3	90, 170, 61	377, 379, 80 MB/s
BU238M series	CMOS	C+M	Area array	1920 × 1200	VIS	USB3	165	380 MB/s
BU302M series BU505M series	CMOS	C+M	Area array	2048 × 1536, 2448 × 2048	VIS	USB3	120, 75	377, 376 MB/s
BU2006M series BU1203M series BU602M series	CMOS	C+M	Area array	5320 × 4600, 4000 × 3000, 3072 × 2048	VIS	USB3	19, 30, 60	388, 360, 384 MB/s
BG505LM series BG302LM series	CMOS	C+M	Area array	2448 × 2048, 2048 × 1536	VIS	GigE	22, 36	110, 113 MB/s
BG160M series BG040M series	CMOS	C+M	Area array	1440 × 1080, 720 × 540	VIS	GigE	72, 291	112, 113 MB/s
CSC6M100BMP11 CSC6M100CMP11	CMOS	C+M	Area array	2560 × 2560	VIS	Camera Link, PoCL (Full)	99.2	650 MB/s
BC505LM series BC302LM series	CMOS	C+M	Area array	2448 × 2048, 2048 × 1536	VIS	Camera Link, PoCL (Base, 3taps)	36, 56	180, 177 MB/s
BC160M series BC040M series	CMOS	C+M	Area array	1440 × 1080, 720 × 540	VIS	PoCL (Base, 3taps)	148, 523	230, 203 MB/s
Videology Imaging Solutions Inc Greenville, RI, USA; 401-949-5332; www.videologyinc.com; sales@videologyinc.com								
Zoom Block with NXP iMX8 Processor Board	CMOS	C+M	Linescan	1920 × 1080	VIS	Ethernet	60, 50, 30, 25	—
25Z2.4-36X Global Shutter 23x Autofocus Zoom Block Camera	CMOS	C+M	Linescan	1936 × 1226	VIS	EX-SDI, LVDS, CVBS	60, 50, 30, 25	—
24RS2.0XW-EXSDI STARVIS Board Camera	CMOS	C+M	Linescan	1920 × 1080	VIS	EX-SDI, HD-SDI, CVBS	60, 50, 30, 25	—
24C5.0XUSB3 UVC Color Board Camera	CMOS	C+M	Linescan	2592 × 1944	VIS	USB3	4.5-120	—
24M2.17IP IP Camera Board	CMOS	C+M	Linescan	1920 × 1080	VIS	Ethernet	30	—
Vieworks Co Ltd Anyang-si, Gyeonggi-do, South Korea; 82-70-7011-6161; vision.vieworks.com; vision@vieworks.com								
VQ Series	CMOS	C+M	Area array	728 × 544-5472 × 3648	VIS	GigE	291	—
VC Series	CMOS	C+M	Area array	2048 × 1088-14,192 × 10,640	VIS	Camera Link, CoaXPress, CoaXPress 2.0, 10 GigE	337.6	—
VP Series	CMOS	C+M	Area array	5120 × 5120-16,544 × 9200	VIS	Camera Link, CoaXPress, CoaXPress 2.0	35.4	—
VN Series	CMOS	C+M	Area array	15,360 × 15,360-23,760 × 18,012	VIS	CoaXPress	72	—
VNP Series	CMOS	C+M	Area array	23,760 × 18,012-28,384 × 21,280	VIS	CoaXPress	30	—
VX Series	CMOS	M	Area array	5120 × 5120	VIS	GigE	4.7	—

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Vieworks Co Ltd Anyang-si, Gyeonggi-do, South Korea; 82-70-7011-6161; vision.vieworks.com; vision@vieworks.com								
VT Series-M42 / M72 / M95	—	M	TDI	3200 × 32– 23,360 × 256	VIS	Camera Link, CoaXPress, GigE	—	300 kHz
VTC Series	—	C	TDI	2160 × 80	VIS	Camera Link, CoaXPress, GigE	—	140 kHz
VL Series	—	C+M	Linescan	2048 × 2– 16,384 × 1	VIS	Camera Link	—	200 kHz
Vision Components GmbH Ettlingen, Germany; 603-598-2588; www.vision-components.com; info@vision-components.com								
MIPI Camera Modules	CMOS	C+M	Area array	≤5496 × 3672	NIR VIS	MIPI CSI-2 + trigger	≤530	6 Gbit
VCSBC Nano Z 00xx	CMOS	C+M	Area array	1600 × 1200	NIR, VIS	Digital I/O, Ethernet, GigE, RS-232	60–230	—
VCSBC nano Z-RH 0010 Embedded OEM Vision System	CMOS	C+M	Area array	736 × 480	NIR, VIS	Ethernet, RS-232	134	—
VC nano Z-LED Series	CMOS	C+M	Area array	≤1920 × 1200	NIR, VIS	Digital I/O, Ethernet, RS-422/LVDS	≤174	—
VC pro Z Series SoC Based Smart Camera Family	CMOS	C+M	Area array	≤1920 × 1200	NIR, VIS	Digital I/O, Ethernet, RS-232	≤174	—
Vision Research Wayne, NJ, USA; 973-696-4500; www.phantomhighspeed.com; phantom@ametek.com								
Phantom TMX	CMOS	C+M	—	1280 × 800, 640 × 64	VIS	Digital I/O, Ethernet, HD-SDI	76,000, ≤ 1,750,000	—
Phantom T-Series	CMOS	C+M	—	2048 × 1952, 640 × 8, 1280 × 800, 640 × 64	VIS	Digital I/O, Ethernet, HD-SDI	3270, ≤113,514, 38,040, ≤875,000	—
PhantomVEO Family	CMOS	C+M	—	—	VIS	Digital I/O, Ethernet, HD-SDI	800– 1,000,000	—
Phantom Miro C/N-Series	CMOS	C+M	—	—	VIS	Digital I/O, Ethernet	800–67,140	—
Phantom Machine Vision Family	CMOS	C+M	—	—	—	CoaXPress	1000+	—
Vzense Technology Co Newark, CA, USA; 650-336-8158; www.vzense.com; info@vzense.com								
ToF 3D Industrial Camera 550-P	3D	M	Area array	640 × 480 (ToF)	NIR	Ethernet	30	—
ToF 3D Industrial Camera 550-U	3D	M	Area array	640 × 480 (ToF)	NIR	USB 1.0/2.0	30	—
DCAM550-U	3D	M	Area array	640 × 480 (ToF)	NIR	Ethernet	30	—
USB Interface TOF 3D camera 710N	3D	C+M	Area array	1920 × 1080 (RGB), 640 × 480 (ToF)	NIR	USB 1.0/2.0	30	—
Xenics nv Leuven, Belgium; 32-16-38-99-00; www.xenics.com; marketing@xenics.com								
Manx SQ Series	InGaAs	M	Linescan	2048 × 1	SWIR	CoaXPress	256	—
Manx R Series	InGaAs	M	Linescan	2048 × 1	SWIR	CoaXPress	256	—
Wildcat 640 Series	InGaAs	M	Area array	640 × 512	SWIR	Camera Link, USB3	220	—
Dione 640 CAM Series	Microbolometer	M	Area array	640 × 480	LWIR	SAMTEC ST5	60	—
Dione 640 OEM Series	Microbolometer	M	Area array	640 × 480	LWIR	SAMTEC ST5	60	—
XIMEA Münster, NRW, Germany; 49-251-202-408-0; www.ximea.com; info@ximea.com								
USB 3.1 cameras with Sony CMOS	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	NIR, VIS	Digital I/O, USB3	165, 122, 76, 43, 31	5 Gbps
Hyperspectral USB3 camera	Multispectral	C+M	Linescan	2048 × 8, 2048 × 5, 512 × 272, 409 × 217	Hyperspectral, NIR, VIS	USB3	170 hypercubes	5 Gbps

CAMERA MANUFACTURERS

Product	Sensor type	Color/ Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
XIMEA Münster, NRW, Germany; 49-251-202-408-0; www.ximea.com; info@ximea.com								
48 and 20 Mpix high resolution PCIe cameras	CMOS	C+M	Area array	7920 × 6004, 5120 × 3840	VIS	Digital I/O, Fiberoptic, PCIe	30	20 Gbps
12 Mpix Fast speed high resolution cameras	CMOS	C+M	Area array	4096 × 3072	NIR, VIS	Digital I/O, Fiberoptic, PCIe	333	64 Gbps
High speed cameras with up to 3500 Fps	CMOS	C+M	Area array	1280 × 864	VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	3500+	64 Gbps
Scientific sCMOS cameras	CMOS	C+M	Area array	2048 × 2048, 5056 × 2968	NIR, VIS	PCIe, Proprietary, USB3	82	20 Gbps
USB 3.1 cameras with CMOS	CMOS	C+M	Area array	648 × 488, 1280 × 1024, 2048 × 1088, 2048 × 2048	NIR, VIS	Digital I/O, USB3	500, 210, 170, 90	5 Gbps
Micro 5Mpix camera—USB 2.0 CMOS	CMOS	C+M	Area array	2592 × 1944	VIS	Digital I/O, USB 1.0/2.0	5	480 Mbps
X-RAY cameras based on sCMOS	CMOS	M	Area array	5056 × 2968	X-ray	USB3	17	—
Multiple camera platform	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	NIR, VIS	PCIe, Proprietary, USB3	340	—
Cooled cameras with USB3 and CCD	CMOS	C+M	Area array	2048 × 2048, 3296 × 2472, 4864 × 3232, 6576 × 4384	NIR, VIS	Digital I/O, USB3	28, 17, 8, 4	5 Gbps
X-RAY cooled cameras—High resolution	CCD	C+M	Area array	4008 × 2672, 4904 × 3280	X-ray	Digital I/O, FireWire	2	98 MBps
Scientific grade Sony CCD with USB3	CCD	C+M	Area array	1940 × 1460, 2758 × 2208, 3380 × 2704, 4242 × 2830	NIR, VIS	Digital I/O, USB3	57, 28, 20, 15	5 Gbps
Embedded vision cameras	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	Multispectral, NIR, VIS	Digital I/O, PCIe, Proprietary, USB3	166, 218, 165, 95, 69	20 Gbps
Board level cameras from VGA to 16 Mpix	CCD	C+M	Area array	4872 × 3248	NIR, VIS	Digital I/O, Fiberoptic, FireWire, PCIe, Proprietary, USB 1.0/2.0, USB3	≥500	5 Gbps
Peltier Cooled Scientific Grade CCD	CCD	C+M	Area array	4904 × 3280	NIR, VIS, X-ray	Digital I/O, FireWire	1.5	98 MBps
Thunderbolt enabled industrial cameras	CCD	C+M	Area array	1920 × 1200, 5120 × 3840	NIR, VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	165, 30	20 Gbps
Micro 18 Mpix camera—USB 3.0 CMOS	CMOS	C	Area array	4912 × 3680	VIS	USB3	20	—
High speed cameras with HD at 2500 Fps	CMOS	C+M	Area array	1920 × 1080	VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	2500+	64 Gbps
NIR camera models from 1 to 12 Mpix	CMOS	M	Area array	1280 × 1024, 2048 × 1088, 2048 × 2048, 4096 × 3072	NIR, VIS	PCIe, USB3	333	—
Zivid Oslo, Norway; 47-21022472; www.zivid.com; info@zivid.com								
Zivid One Plus	3D	C+M	Area array	1920 × 1200	VIS	USB3	—	—
Zivid Two	3D	C+M	Area array	1944 × 1200	VIS	10GigE	—	—

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CAMERA DISTRIBUTORS

Product	Sensor type	Color/Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
1stVision Inc Andover, MA, USA; 978-474-0044; www.1stvision.com; info@1stvision.com								
Allied Vision Goldeye SWIR GigE and Camera Link Series	InGaAs	M	Area array	320 × 256, 640 × 480	SWIR	Digital I/O, Ethernet, GigE, Camera Link	344	106 MB/s
Allied Vision Mako and Alvim GigE and USB3 Series	CMOS	C+M	Area array	VGA-20 Mpixels	NIR, VIS	Digital I/O, Ethernet, GigE, USB3	≥1000	400 MB/s
IDS Imaging GigE, 5GigE, and USB3 Series	CMOS	C+M	Area array	VGA-20 Mpixels	NIR, VIS	Digital I/O, Ethernet, GigE, 5GigE, USB3	396	500 MB/s
Teledyne Dalsa Linea GigE, 5GigE, and Camera Link Line Scan Series	CMOS	C+M	Linescan	2048 × 1–32,768 × 1	NIR, SWIR, VIS	Digital I/O, Ethernet, GigE, 5GigE, Camera Link	—	≥80 kHz
Teledyne Dalsa Genie Nano GigE, 5GigE, Camera Link, and CoaXpress Series	CMOS	C+M	Area array	VGA-67 Mpixels	LWIR, NIR, VIS	Digital I/O, Ethernet, GigE, 5GigE, RS-232	≥1000	1608 MB/s
Active Silicon Ltd Iver, UK; 44-1753-650600; www.activesilicon.com; sales@activesilicon.com								
Tamron MP2030M-GS Global Shutter	CMOS	C+M	Area array	1280 × 1024	VIS	LVDS, USB 3, HDMI, HD-SDI, HD-VLC, CVBS, H.264 Internet Protocol	30, 60	—
Tamron MP1110M-VC/-WP	CMOS	C+M	Area array	1920 × 1080	VIS	LVDS, USB 3, HDMI, 3G/HD-SDI, HD-VLC, CVBS, H.264 Internet Protocol	60	—
Sony FCB-EV7520A	CMOS	C+M	Area array	640 × 512	VIS	LVDS, USB 3, HDMI, 3G/HD-SDI, HD-VLC, CVBS, H.264 Internet Protocol	60	—
Systematic Vision Corp Ashland, MA, USA; 508-532-1116; www.systematicvision.com; bill@systematicvision.com								
Princeton Infrared 1280MVCam	InGaAs	M	Area array	1280 × 1024	NIR, SWIR, VIS	Camera Link	100	—
Photonfocus MV8-D8424-G01-GT	CMOS	C+M	Area array	8424 × 6032	VIS	10GigE	24	—
Photonfocus MV4-D9344-G01-GT	CMOS	C+M	Area array	9344 × 7000	VIS	10GigE	18	—
Photonfocus MV4-D1280-L01-3D07-GT	CMOS	M	Area array	1280 × 1024	VIS	10GigE	65,600	—



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CAMERA DISTRIBUTORS

Product	Sensor type	Color/Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
Systematic Vision Corp Ashland, MA, USA; 508-532-1116; www.systematicvision.com; bill@systematicvision.com								
Photonfocus MV4-D1280U-H01-GT	CMOS	M	Area array	1280 x 1024	UV, VIS, NIR	10GigE	140	—
Photonfocus MV1-D1024E-160-CL	CMOS	M	Area array	1024 x 1024	VIS	Camera Link, GigE	150	—
Mikrotron EoSens 2.0CXP2	CMOS	C+M	Area array	1920 x 1080	VIS	CoaXPress 2.0	2220	—
Mikrotron EoSens 1.1CXP2	CMOS	C+M	Area array	1280 x 864	VIS	CoaXPress 2.0	3660	—
JAI FSFE-3200D-10GE Flex-Eye	CMOS	C+M	Area array	2048 x 1536	Multispectral, NIR, VIS	10GigE	123	—
JAI FSFE-1600T-10GE Flex-Eye	CMOS	C+M	Area array	1440 x 1080	Multispectral, NIR, VIS	10GigE	213	—
JAI SP-45000-CXP4	CMOS	C+M	Area array	8192 x 5460	NIR, VIS	CoaXPress	51	—
JAI GO-X Series	CMOS	C+M	Area array	2.3–12.3 Mpixels	VIS	GigE, USB3	162	—
IOI Victorem CX Series	CMOS	C+M	Area array	0.4–26.2 Mpixels	VIS	CoaxPress	523	—
Emergent Vision HZ-100-G	CMOS	C+M	Area array	11276 x 9200	VIS	100GigE	30	—
Emergent Vision HZ-65000-G	CMOS	C+M	Area array	9344 x 7000	VIS	100GigE	71	—
Emergent Vision HB-25000-SB	CMOS	C+M	Area array	5320 x 4600	VIS	25GigE	98	—
Allied Vision Goldeye G/CL-034 TEC1	InGaAs	M	Area array	636 x 508	SWIR	Camera Link, GigE	303	—
Allied Vision Goldeye G/CL-030 TEC1	InGaAs	M	Area array	12806 x 1024	SWIR, NIR, VIS	Camera Link, GigE	100	—
Allied Vision Alvim 1800 U/C-2050	CMOS	C+M	Area array	5496 x 3672	VIS	USB3, MIPI CSI-2	17	—
Allied Vision Alvim 1800 U/C-2460	CMOS	C+M	Area array	5328 x 4608	VIS	USB3, MIPI CSI-2	14	—
Vision Systems Technology LLC Vista, CA, USA; 858-449-1562; www.visionsystech.com; sales@visionsystech.com								
Vieworks 155 MP CoaXPress Camera	CMOS	C+M	Area array	16384 x 9440	NIR, VIS	CoaXPress	15	3.5 GB/s
Vieworks VT High Sensitivity TDI Line Scan CoaXPress Cameras	CMOS	M	TDI	23,360 x 256, 17,824 x 256, 16,384 x 256, 12,480 x 256, 8912 x 128, 6560 x 256, 6240 x 128, 4640 x 256, 4096 x 64, 4096 x 128, 3200 x 128	NIR, VIS	Camera Link, CoaXPress	—	2.34 GB/s
Vieworks VC-90 MX Camera	CMOS	C+M	Area array	12560 x 7080	NIR, VIS	CoaXPress	26	3.5 GB/s
Indigo 43 MP sCMOS 10 FPS Global Shutter CL Camera	CMOS	M	Area array	8, 10, 12	NIR, VIS	Camera Link, Camera Link Extended-Full	10	645 MP/s
Emergent 50MP 10GigE 23 FPS Global Shutter CMOS Camera	CMOS	C+M	Area array	7920 x 6004	NIR, VIS	10 GigE	23	1750 MB/s
Vieworks 12 MP 330 FPS Coaxpress CMOS Digital Vision Camera	CMOS	C+M	Area array	4096 x 3072	NIR, VIS	CoaXPress	330	4152 MP/s
Vieworks 71 MP 4.2 FPS Cameralink CMOS Digital Vision Camera	CMOS	C+M	Area array	8, 10, 12	NIR, VIS	Camera Link	4.2	447 MP/s
Teledyne Dalsa Genie Nano & Falcon4 Cameras	CCD & CMOS versions	C+M	Area array	—	VIS	Camera Link, CoaXPress, GigE	—	—
Vieworks VC-50MX Camera (50 MP)	CMOS	C+M	Area array	7920 x 6004	NIR	CoaXPress	≥30.9	—
Vieworks VN-200MX Camera (200 MP)	CMOS	C+M	Area array	7920 x 6004	VIS	CoaXPress	30	—

CAMERA DISTRIBUTORS

Product	Sensor type	Color/Mono	Scan type	Image format	Spectrum digitized	Interface	Frame/s	Data rate
XIMEA Münster, NRW, Germany; 49-251-202-408-0; www.ximea.com; info@ximea.com								
USB 3.1 cameras with Sony CMOS	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	NIR, VIS	Digital I/O, USB3	165, 122, 76, 43, 31	5 Gbps
Hyperspectral USB3 camera	Multispectral	C+M	Linescan	2048 × 8, 2048 × 5, 512 × 272, 409 × 217	Hyperspectral, NIR, VIS	USB3	170 hypercubes	5 Gbps
48 and 20 Mpix high resolution PCIe cameras	CMOS	C+M	Area array	7920 × 6004, 5120 × 3840	VIS	Digital I/O, Fiberoptic, PCIe	30	20 Gbps
12 Mpix Fast speed high resolution cameras	CMOS	C+M	Area array	4096 × 3072	NIR, VIS	Digital I/O, Fiberoptic, PCIe	333	64 Gbps
High speed cameras with up to 3500 Fps	CMOS	C+M	Area array	1280 × 864	VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	3500+	64 Gbps
Scientific sCMOS cameras	CMOS	C+M	Area array	2048 × 2048, 5056 × 2968	NIR, VIS	PCIe, Proprietary, USB3	82	20 Gbps
USB 3.1 cameras with CMOS	CMOS	C+M	Area array	648 × 488, 1280 × 1024, 2048 × 1088, 2048 × 2048	NIR, VIS	Digital I/O, USB3	500, 210, 170, 90	5 Gbps
Micro 5Mpix camera - USB 2.0 CMOS	CMOS	C+M	Area array	2592 × 1944	VIS	Digital I/O, USB 1.0/2.0	5	480 Mbps
X-RAY cameras based on sCMOS	CMOS	M	Area array	5056 × 2968	X-ray	USB3	17	—
Multiple camera platform	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	NIR, VIS	PCIe, Proprietary, USB3	340	—
Cooled cameras with USB3 and CCD	CMOS	C+M	Area array	2048 × 2048, 3296 × 2472, 4864 × 3232, 6576 × 4384	NIR, VIS	Digital I/O, USB3	28, 17, 8, 4	5 Gbps
X-RAY cooled cameras - High resolution	CCD	C+M	Area array	4008 × 2672, 4904 × 3280	X-ray	Digital I/O, FireWire	2	98 MBps
Scientific grade Sony CCD with USB3	CCD	C+M	Area array	1940 × 1460, 2758 × 2208, 3380 × 2704, 4242 × 2830	NIR, VIS	Digital I/O, USB3	57, 28, 20, 15	5 Gbps
Embedded vision cameras	CMOS	C+M	Area array	1936 × 1216, 2064 × 1544, 2464 × 2056, 4112 × 2176, 4112 × 3008	Multispectral, NIR, VIS	Digital I/O, PCIe, Proprietary, USB3	166, 218, 165, 95, 69	20 Gbps
Board level cameras from VGA to 16 Mpix	CCD	C+M	Area array	4872 × 3248	NIR, VIS	Digital I/O, Fiberoptic, FireWire, PCIe, Proprietary, USB 1.0/2.0, USB3	≥500	5 Gbps
Peltier Cooled Scientific Grade CCD	CCD	C+M	Area array	4904 × 3280	NIR, VIS, X-ray	Digital I/O, FireWire	1.5	98 MBps
Thunderbolt enabled industrial cameras	CCD	C+M	Area array	1920 × 1200, 5120 × 3840	NIR, VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	165, 30	20 Gbps
Micro 18 Mpix camera - USB 3.0 CMOS	CMOS	C	Area array	4912 × 3680	VIS	USB3	20	—
High speed cameras with HD at 2500 Fps	CMOS	C+M	Area array	1920 × 1080	VIS	Digital I/O, Fiberoptic, PCIe, Proprietary	2500+	64 Gbps
NIR camera models from 1 to 12 Mpix	CMOS	M	Area array	1280 × 1024, 2048 × 1088, 2048 × 2048, 4096 × 3072	NIR, VIS	PCIe, USB3	333	—

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