

Features	XC-100	XC-200	XF-100	XF-105	XF-200	XF-205	CS-100	ID-110	ID-100
<i>VeriSens</i> Vision Sensors									
Resolution [px] (Sensor Type)	A: 640 × 480 (1/4" CCD) B: 1280 × 960 (1/3" CCD) C: 1600 × 1200 (1/1.8" CCD)		752 × 480 (1/3" CMOS)						
Monochrome Color	A: ● ● B: ● ● C: ● —		● —						
Speed (A B C) High-resolution mode: High-speed mode: <small>(limited resolution, monochrome)</small>	Max. 50 12 7 insp./sec. Max. 100 25 15 insp./sec.		Max. 50 insp./sec. Max. 100 insp./sec. (XF series only)						
Defect image memory (A B C)	32 8 4		32						
Optics: 10 mm 16 mm C-mount	— — ●		● ● —		● ● —		● ● —		● ● —
Illumination: White Infrared with daylight filter	Fully integrated flash controller		● ●		● ●		● ●		● —
Process linkage: Digital I/Os	5 / 3-5		5 / 3-5		5 / 3-5		5 / 5	5 / 3-5	5 / 3
Process interface: Ethernet RS485 (depending on model) <small>(PROFINET[®] via RS485 gateway)</small>	● ●		● ●	● —	● ●	● —	— —		● ●
Flexible result conjunction	●		●		●				
Identification functions	Code, Text		Code, Text				Code, Text		Code
Configurable web interface	●		●						
Protection class	IP 67 (with Tube)		IP 67	IP 69K	IP 67	IP 69K	IP 67	IP 67	IP 67

Camera Type	Model Variants						Sensor Type	Sensor	Resolution [px] ¹⁾	Pixel Size [µm]	Full Frames [fps]	
	Mono	Color	NIR ²⁾	IP67 ²⁾	PoE ²⁾	Multi I/O ²⁾					GigE Vision [™]	FireWire [™]
EX series												
EXG50	●	●					1/2.5" CMOS	Aptina MT9P031	2592 × 1946	2.2 × 2.2	13	—
TX series												
TXG02	●	●					1/4" CCD	SONY ICX618	656 × 494	5.6 × 5.6	140	—
TXG03/TXF03/TXD03	●	●	●	●	●		1/3" CCD	SONY ICX424	656 × 494	7.4 × 7.4	90	90
TXG04	●	●					1/2" CCD	SONY ICX414	656 × 494	9.9 × 9.9	56	—
TXG04 v2	●	●					1/2" CCD	SONY ICX414	656 × 494	9.9 × 9.9	93	—
TXG04h	●						1/3" CCD	Truesense KAI-0340	640 × 480	7.4 × 7.4	210	—
TXG06	●	●					1/2" CCD	SONY ICX415	776 × 582	8.3 × 8.3	64	—
TXG08/TXF08	●	●	●	●			1/3" CCD	SONY ICX204	1032 × 776	4.65 × 4.65	28	28
TXG12	●	●					1/3" CCD	SONY ICX445	1296 × 966	3.75 × 3.75	32	—
TXG13/TXD13	●	●	●	●	●		1/2" CCD	SONY ICX267	1392 × 1040	4.65 × 4.65	20	20
TXG14/TXF14/TXD14	●	●	●				2/3" CCD	SONY ICX285	1392 × 1040	6.45 × 6.45	20	20
TXG14f	●	●					2/3" CCD	SONY ICX285	1392 × 1040	6.45 × 6.45	30	—
TXG20/TXF20/TXD20	●	●	●	●	●		1/1.8" CCD	SONY ICX274	1624 × 1236	4.4 × 4.4	16	16
TXG50/TXF50	●	●	●	●	●		2/3" CCD	SONY ICX625	2448 × 2050	3.45 × 3.45	15	15

¹⁾Resolution with color models may have minimal variations. ²⁾Available only with GigE.

Camera Type	Model Variants				Sensor Type	Sensor	Resolution [px]	Pixel Size [µm]	Full Frames [fps]		
	Mono	Color	NIR	IP65/67					GigE Vision*	USB3 Vision™	Camera Link*
HX series											
HXC13	●				1.4" CMOS	Cypress LUPA-1300-2	1280 × 1024	14.0 × 14.0	–	–	500
HXG20/HXC20	●	●	●		2/3" CMOS	CMOSIS CMV2000	2048 × 1088	5.5 × 5.5	105	–	337
HXG40/HXC40	●	●	●		1" CMOS	CMOSIS CMV4000	2048 × 2048	5.5 × 5.5	56	–	180
SX series											
SXG10/SXC10	●	●			1/2" CCD	Truesense KAI-01050	1024 × 1024	5.5 × 5.5	120	–	120
SXG20/SXC20/SXC20 v2	●	●			2/3" CCD	Truesense KAI-02050	1600 × 1200	5.5 × 5.5	68	–	68
SXG21/SXC21	●	●			2/3" CCD	Truesense KAI-02150	1920 × 1080	5.5 × 5.5	64	–	64
SXG40/SXC40	●	●			1" CCD	Truesense KAI-04050	2336 × 1752	5.5 × 5.5	32	–	32
SXG80/SXC80/SXC80 v2	●	●			4/3" CCD	Truesense KAI-08050	3296 × 2472	5.5 × 5.5	16	–	16
VisiLine® series											
VLG-02 / VLU-02	●	●		●	1/4" CCD	SONY ICX618	656 × 490	5.6 × 5.6	160	160	–
VLG-03 / VLU-03 ¹⁾	●	●		●	1/3" CMOS	CMOSIS CMV300	640 × 480	7.4 × 7.4	373	373	–
VLG-12 / VLU-12	●	●		●	1/3" CCD	SONY ICX445	1288 × 960	3.75 × 3.75	42	42	–
VLG-20	●	●		●	1/1.8" CCD	SONY ICX274	1624 × 1228	4.4 × 4.4	27	–	–
VLG-22	●	●		●	2/3" CMOS	CMOSIS CMV2000	2040 × 1084	5.5 × 5.5	55	–	–
VLG-23 ¹⁾	●	●		●	1/1.2" CMOS	SONY IMX174	1920 × 1212	5.86 × 5.86	50	–	–
VLG-40	●	●		●	1" CMOS	CMOSIS CMV4000	2040 × 2044	5.5 × 5.5	29	–	–
MX series											
MXG02 / MXU02	●	●			1/4" CCD	SONY ICX618	656 × 490	5.6 × 5.6	160	160	–
MXGC03 ¹⁾	●	●			1/3" CMOS	CMOSIS CMV300	640 × 480	7.4 × 7.4	373	–	–
MXG12 / MXU12	●	●			1/3" CCD	SONY ICX445	1288 × 960	3.75 × 3.75	42	42	–
MXG20 / MXU20	●	●			1/1.8" CCD	SONY ICX274	1624 × 1228	4.4 × 4.4	27	27	–
MXGC20 / MXUC20	●	●			2/3" CMOS	CMOSIS CMV2000	2040 × 1084	5.5 × 5.5	55	55	–
MXGC40 / MXUC40	●	●			1" CMOS	CMOSIS CMV4000	2040 × 2044	5.5 × 5.5	29	29	–

¹⁾available Q1/2015 ²⁾available beginning Q2/2015

Camera Type	Model Variants			Sensor Type	Sensor	Resolution [px]	Pixel Size [µm]	Full Frames [fps]			
	Mono	Color ¹⁾	Quad-tap					GigE Vision*	USB3 Vision™	Camera Link*	
PX series											
PXU-28 ¹⁾	●	●	●		2/3" CCD	SONY ICX674	1936 × 1456	4.54 × 4.54			50
PXU-60	●	●	●		1" CCD	SONY ICX694	2752 × 2200	4.54 × 4.54			25
PXU-90 ¹⁾	●	●	●		1" CCD	SONY ICX814	3384 × 2704	3.69 × 3.69			18
PXU-120	●	●	●		1" CCD	SONY ICX834	4248 × 2832	3.1 × 3.1			15
									Single GigE	Dual GigE	
LX series											
LXG-80	●	●			4/3" CMOS	CMOSIS CMV8000	3360 × 2496	5.5 × 5.5	14	29	
LXG-120	●	●			APS-C CMOS	CMOSIS CMV12000	4096 × 3072	5.5 × 5.5	9	19	
LXG-200	●	●			35mm CMOS	CMOSIS CMV20000	5120 × 3840	6.4 × 6.4	6	12	

¹⁾available Q2/2015