ContrasTech

Large Area Scan Cameras

GiGE VISION 10GiGE VISION USB3 VISION

CAMERA Link CoaXPress

- Excellent Cost Performance Ratio
- High Resolution, High Precision
- 1.7MP to 600MP Resolution Optional
- Large-size Sensor

CONTRASTECH

GigE

Model	Sensor	Sensor Size	Resolution [pixel]	Data Bits [bit]	Pixel Size [µm²]	Frame Rate [fps]	Sensor Technology	Color	Lens Interface	No.
Mars1760S-66gm	IMX432	1.1''	1608 × 1104	8/10	9	66	Global	Mono	C	5
Mars1760S-66gc	IMX432	1.1''	1608 × 1104	8/10	9	66	Global	Color	C	5
Mars7MS-17gm	IMX428	1.1''	3208 × 2200	8/10	4.5	17	Global	Mono	C	5
Mars7MS-17gc	IMX428	1.1''	3208 × 2200	8/10	4.5	17	Global	Color	C	5
Mars12MS-9gm-Lite	IMX304	1.1''	4096 × 3000	8/10	3.45	9	Global	Mono	M58	5
Mars12MS-9gc-Lite	IMX304	1.1''	4096 × 3000	8/10	3.45	9	Global	Color	M58	5
Mars12MS-9gm	IMX304	1.1''	4096 × 3000	8/10	3.45	9	Global	Mono	M58	5
Mars12MS-9gc	IMX304	1.1''	4096 × 3000	8/10	3.45	9	Global	Color	M58	5
Mars25MP-4gm	PYTHON25K	23 × 23 mm	5120 × 5120	8/10	4.5	4	Global	Mono	M58	6
Mars25MP-4gc	PYTHON25K	23 × 23 mm	5120 × 5120	8/10	4.5	4	Global	Color	M58	6
Mars25MG-4gm	GMAX0505	1.1''	5120 × 5120	8/10	2.5	4	Global	Mono	M58	6
Mars25MG-4gc	GMAX0505	1.1''	5120 × 5120	8/10	2.5	4	Global	Color	M58	6
Mars31MS-3gm	IMX342	22.3 × 16.6 mm	6464 x 4852	12	3.45	3.6	Global	Mono	M58	6
Mars31MS-3gc	IMX342	22.3 × 16.6 mm	6464 x 4852	12	3.45	3.6	Global	Color	M58	6
Mars46MD-2gm	-	29.9 x 16 mm	9344 x 5000	12	3.2	2.6	Global	Mono	M58	7
Mars46MD-2gc	-	29.9 x 16 mm	9344 x 5000	12	3.2	2.6	Global	Color	M58	7
Mars65MG-2gm	GMAX3265	29.9 x 22.4 mm	9280 x 7000	12	3.2	1.7	Global	Mono	M58	7
Mars65MG-2gc	GMAX3265	29.9 x 22.4 mm	9280 x 7000	12	3.2	1.7	Global	Color	M58	7
LEO 12MS-9gm-Lite	IMX304	1.1''	4096 × 3000	12	3.45	9.4	Global	Mono	C	8
LEO 12MS-9gm	IMX304	1.1''	4096 × 3000	12	3.45	9.4	Global	Mono	C	8
LEO 12MS-9gc	IMX304	1.1''	4096 × 3000	12	3.45	9.4	Global	Color	C	8
LEO 16MD-7gm NEW	-	1.1''	4000 × 4000	12	3.2	7	Global	Mono	C	8
LEO 25MG-5gm	GMAX0505	1.1''	5120 × 5120	12	2.5	4.5	Global	Mono	C	9
LEO 25MG-5gc	GMAX0505	1.1''	5120 × 5120	12	2.5	4.5	Global	Color	C	9
LEO 25MG-5gNIR NEW	GMAX0505	1.1''	5120 × 5120	12	2.5	4.5	Global	NIR	C	9
LEO 31MS-4gm	IMX342	22.3 × 16.7 mm	6464 × 4852	12	3.45	3.9	Global	Mono	M58	9
LEO 31MS-4gc	IMX342	22.3 × 16.7 mm	6464 × 4852	12	3.45	3.9	Global	Color	M58	9

USB3.0

Model	Sensor	Sensor Size	Resolution [pixel]	Data Bits [bit]	Pixel Size [µm²]	Frame Rate [fps]	Sensor Technology	Color	Lens Interface	No.
Mars12MS-23um	IMX304	1.1''	4096 × 3000	12	3.45	23	Global	Mono	C	10
Mars12MS-23uc	IMX304	1.1''	4096 × 3000	12	3.45	23	Global	Color	C	10
Mars12MS-30um	IMX253	1.1''	4096 × 3000	10	3.45	30	Global	Mono	C	10
Mars12MS-30uc	IMX253	1.1''	4096 × 3000	10	3.45	30	Global	Color	C	10
Mars25MG-14um	GMAX0505	1.1"	5120 × 5120	12	2.5	14	Global	Mono	C	10
Mars25MG-14uc	GMAX0505	1.1"	5120 × 5120	12	2.5	14	Global	Color	C	10
LEO 12MS-23um	IMX304	1.1''	4096 × 3000	12	3.45	23.1	Global	Mono	C	11
LEO 12MS-23uc	IMX304	1.1''	4096 × 3000	12	3.45	23.1	Global	Color	C	11
LEO 12MS-30um	IMX304	1''	4096 × 3000	12	3.45	30.3	Global	Mono	C	11
LEO 12MS-30uc	IMX304	1''	4096 × 3000	12	3.45	30.3	Global	Color	C	11
LEO 25MG-14um	GMAX0505	1.1"	5120 × 5120	12	2.5	14.3	Global	Mono	C	11
LEO 25MG-14uc	GMAX0505	1.1"	5120 × 5120	12	2.5	14.3	Global	Color	C	11

10GigE

Model	Sensor	Sensor Size	Resolution [pixel]	Data Bits [bit]	Pixel Size [µm²]	Frame Rate [fps]	Sensor Technology	Color	Lens Interface	No.
Mars12MS-68Tgm	IMX253	1.1"	4096 x 3000	8/10	3.45	68	Global	Color	M58	12
Mars12MS-68Tgc	IMX253	1.1"	4096 x 3000	8/10	3.45	68	Global	Color	M58	12
Mars25MG-41Tgm	GMAX0505	1.1"	5120 x 5120	12	2.5	41	Global	Mono	M58	12
Mars25MG-41Tgc	GMAX0505	1.1"	5120 x 5120	12	2.5	41	Global	Color	M58	12
Mars25MP-43Tgm	PYTHON25K	23 × 23 mm	5120 x 5120	8/10	4.5	43	Global	Mono	M58	13
Mars25MP-43Tgc	PYTHON25K	23 × 23 mm	5120 x 5120	8/10	4.5	43	Global	Color	M58	13
Mars65MG-18Tgm	GMAX3265	29.9 x 22.4 mm	9344 x 7000	12	3.2	17.4	Global	Mono	M58	13
Mars65MG-18Tgc	GMAX3265	29.9 x 22.4 mm	9344 x 7000	12	3.2	17.4	Global	Color	M58	13
LEO 12MS-68Tgm(V2)	IMX253	1.1"	4096 × 3000	12	3.45	68	Global	Mono	M58	14
LEO 12MS-68Tgc(V2)	IMX253	1.1"	4096 × 3000	12	3.45	68	Global	Color	M58	14
LEO 24MS-35Tgm	IMX540	1.2"	5328 × 4600	12	2.74	35.1	Global	Mono	C / M58	14
LEO 25MD-30Tgm	-	23 × 23 mm	5120 × 5120	12	4.5	31.7	Global	Mono	M58	14
LEO 25MG-40Tgm	GMAX0505	1.1"	5120 × 5120	12	2.5	41.5	Global	Mono	C / M58	15
LEO 25MG-40Tgc	GMAX0505	1.1"	5120 × 5120	12	2.5	41.5	Global	Color	C / M58	15
LEO 25MG-40TgNIR	GMAX0505	1.1"	5120 × 5120	12	2.5	41.5	Global	NIR	M58	15
LEO 31MS-17Tgm	IMX342	24.9 × 16.6 mm	6464 × 4852	8/12	3.45	17.2	Global	Mono	M58	15
LEO 31MS-17Tgc	IMX342	24.9 × 16.6 mm	6464 × 4852	8/12	3.45	17.2	Global	Color	M58	15
LEO 50MG-15Tgm	GMAX	22.4 × 22.4 mm	7008 × 7000	12	3.2	15.5	Global	Mono	M58 / F	16
LEO 50MG-15Tgc	GMAX	22.4 × 22.4 mm	7008 × 7000	12	3.2	15.5	Global	Color	M58	16
LEO 65MG-15Tgm	GMAX3265	29.9 × 22.4 mm	9344 × 7000	12	3.2	15.5	Global	Mono	M58 / F	16
LEO 65MG-15Tgc	GMAX3265	29.9 × 22.4 mm	9344 × 7000	12	3.2	15.5	Global	Color	M58 / F	16
LEO 150MSC-6Tgm	IMX411	66.7 mm	14208 × 10640	12/16	3.76	6.2	Rolling	Mono	M72	16

Camera Link

Model	Sensor	Sensor Size	Resolution [pixel]	Data Bits [bit]	Pixel Size [µm²]	Frame Rate [fps]	Sensor Technology	Color	Lens Interface	No.
Mars12MS-20cm	IMX304	1.1"	4096 × 3000	10	3.45	20	Global	Mono	C	17
Mars12MS-20cc	IMX304	1.1"	4096 × 3000	10	3.45	20	Global	Color	C	17
Mars25MG-30cm	GMAX0505	1.1"	5120 × 5120	10	2.5	30	Global	Mono	C	17
Mars31MS-25cm	IMX342	22.3 x 16.7 mm	6240 × 4848	10	3.45	24.8	Global	Mono	M58	17
Mars31MS-25cc	IMX342	22.3 x 16.7 mm	6240 × 4848	10	3.45	24.8	Global	Color	M58	17
Mars46MD-18cm	-	29.9 x 16.0 mm	9280 × 4992	12	3.2	17.5	Global	Mono	M58	18
Mars46MD-18cc	-	29.9 x 16.0 mm	9280 × 4992	12	3.2	17.5	Global	Color	M58	18
Mars65MG-13cm	GMAX3265	29.9 x 22.4 mm	9280 × 6992	12	3.2	12.5	Global	Mono	M58	18
Mars65MG-13cc	GMAX3265	29.9 x 22.4 mm	9280 × 6992	12	3.2	12.5	Global	Color	M58	18
Mars150MS-5cm	IMX411	53.4 x 40 mm	14208 × 10640	12	3.76	5.1	Rolling	Mono	M72	18
LEO 12MS-70cm	IMX253	1.1"	3840 × 3000	8	3.45	69.8	Global	Mono	C	19
LEO 12MS-70cc	IMX253	1.1"	3840 × 3000	8	3.45	68.1	Global	Color	C	19
LEO 12MS-23cm	IMX304	1.1"	4096 × 3000	12	3.45	23.4	Global	Mono	C	19
LEO 100MS-8cm	IMX461	55 mm	11648 × 8740	12/16	3.76	8.1	Rolling	Mono	M72	20
LEO 100MSC-8cm	IMX461	55 mm	11648 × 8740	12/16	3.76	8.1	Rolling	Mono	M72	20
LEO 100MSC-8cc	IMX461	55 mm	11648 × 8740	12/16	3.76	8.1	Rolling	Color	M72	20

CoaXPress

Model	Sensor	Sensor Size	Resolution [pixel]	Data Bits [bit]	Pixel Size [μm^2]	Frame Rate [fps]	Sensor Technology	Color	Lens Interface	No.
Mars12MC-188xm	CMV12000	22.5 × 16.9 mm	4092 × 3072	10	5.5	188	Global	Mono	M58 / F / M42	21
Mars12MC-188xc	CMV12000	22.5 × 16.9 mm	4092 × 3072	10	5.5	188	Global	Color	M58 / F / M42	21
Mars12MC-330xm	CMV12000	22.5 × 16.9 mm	4092 × 3072	12	5.5	330	Global	Mono	M58	21
Mars12MC-330xc	CMV12000	22.5 × 16.9 mm	4092 × 3072	12	5.5	330	Global	Color	M58	21
Mars21MG-220xm	Gsprint4521	23.0 × 18.4 mm	5120 × 4096	12	4.5	219	Global	Mono	M58	21
Mars25MG-90xm	GMAX0505	1.1''	5120 × 5120	10	2.5	90	Global	Mono	M58	22
Mars25MG-90xc	GMAX0505	1.1''	5120 × 5120	10	2.5	90	Global	Color	M58	22
Mars25MG-150xm	GMAX0505	1.1''	5120 × 5120	10	2.5	150	Global	Mono	M58 / M42	22
Mars25MG-150xc	GMAX0505	1.1''	5120 × 5120	10	2.5	150	Global	Color	M58 / M42	22
Mars25MG-42xm	GMAX0505	1.1''	5120 × 5120	10	2.5	42	Global	Mono	C	22
Mars50MC-30xm	CMV50000	36.4 x 27.6 mm	7920 × 6004	12	4.6	30	Global	Mono	M58 / F	23
Mars50MC-30xc	CMV50000	36.4 x 27.6 mm	7920 × 6004	12	4.6	30	Global	Color	M58 / F	23
Mars46MD-44xm	-	29.9 x 16.0 mm	9344 × 5000	12	3.2	44	Global	Mono	M58	23
Mars46MD-44xc	-	36.4 x 27.6 mm	9344 × 5000	12	3.2	44	Global	Color	M58	23
Mars65MG-31xm	GMAX3265	29.9 x 22.4 mm	9344 × 7000	12	3.2	31	Global	Mono	M58	23
Mars65MG-31xc	GMAX3265	29.9 x 22.4 mm	9344 × 7000	12	3.2	31	Global	Color	M58	23
Mars65MG-71xm	GMAX3265	29.9 x 22.4 mm	9344 × 7000	10	3.2	71	Global	Mono	M58	23
Mars65MG-71xc	GMAX3265	29.9 x 22.4 mm	9344 × 7000	10	3.2	71	Global	Color	M58	23
Mars150MS-6xm	IMX411	66.7 mm	14192 x 10640	12	3.76	6.1	Rolling	Mono	M72	24
Mars150MS-6xc	IMX411	66.7 mm	14192 x 10640	12	3.76	6.1	Rolling	Color	M72	24
Mars150MSC-6xm	IMX411	53.36 x 40.01mm	14192 x 10640	12	3.76	6.1	Rolling	Mono	M72	24
Mars150MSC-6xc	IMX411	53.36 x 40.01mm	14192 x 10640	12	3.76	6.1	Rolling	Color	M72	24
LEO 21MG-220xm	Gsprint4521	23.04 × 18.4 mm	5120 × 4096	8/12	4.5	222	Global	Mono	M58	25
LEO 21MG-220xc	Gsprint4521	23.04 × 18.4 mm	5120 × 4096	8/12	4.5	222	Global	Color	M58	25
LEO 25MG-150xm	GMAX0505	1.1''	5120 × 5120	10	2.5	150	Global	Mono	M58 / C	25
LEO 25MG-150xc	GMAX0505	1.1''	5120 × 5120	10	2.5	150	Global	Color	M58	25
LEO 25MG-41xm NEW	GMAX0505	1.1''	5120 × 5120	10	2.5	41.5	Global	Mono	C	25
LEO 65MG-32xm	GMAX3265	29.9 × 22.4 mm	9344 × 7000	12	3.2	31.5	Global	Mono	M58	26
LEO 65MG-32xc	GMAX3265	29.9 × 22.4 mm	9344 × 7000	12	3.2	31.5	Global	Color	M58	26
LEO 65MG-71xm	GMAX3265	29.9 × 22.4 mm	9344 × 7000	10	3.2	71	Global	Mono	M58	26
LEO 65MG-71xc	GMAX3265	29.9 × 22.4 mm	9344 × 7000	10	3.2	71	Global	Color	M58	26
LEO 150MS-6xm	IMX411	66.7mm	14208 × 10640	12/16	3.76	6.2	Rolling	Mono	M72	27
LEO 150MS-6xc	IMX411	66.7mm	14208 × 10640	12/16	3.76	6.2	Rolling	Color	M72	27
LEO 150MSC-6xm	IMX411	66.7mm	14208 × 10640	12/16	3.76	6.2	Rolling	Mono	M72	27
LEO 150MSC-6xc	IMX411	66.7mm	14208 × 10640	12/16	3.76	6.2	Rolling	Color	M72	27
LEO 600MS-2xm	IMX411	66.7mm	14208 × 10640	12/16	3.76	1.45	Rolling	Mono	M72	27

	Mars1760S-66gm/gc	Mars7MS-17gm/gc	Mars12MS-9gm/gc	Mars12MS-9gm/gc-Lite
Camera				
Resolution[H*V pixels]	1604 × 1100	3208 × 2200	4096 × 3000	
Sensor	IMX432	IMX428	IMX304	
Sensor Size[Optical]	1.1"	1.1"	1.1"	
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global	
Pixel Size [μm]	9 x 9	4.5 x 4.5	3.45 x 3.45	
Frame Rate [FPS]	66	17	9	
Data Bits	12 bit	12 bit	12 bit	
Exposure Time	1μs~1s	1μs~1s	48μs~1s	
Dynamic Range	>70dB	>70dB	>70dB	
Mono/Color	Mono / Color	Mono / Color	Mono / Color	
Image Format	Mono:Mono8/10/10Packed Color:Mono8,BayerRG8/10/10Packed, BayerGB8/10/10Packed,YUV422Packed		Mono:Mono8/10/10Packed/12/12Packed Color:Mono8/BayerRG8/10/10Packed, BayerGB8/10/10Packed,YUV422 Packed	
Interface	Gigabit Ethernet (1000 Mbit/s)			
Synchronization	Via hardware trigger, software trigger or free run			
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction			
Electrical				
Housing Size	29 × 44 × 58 mm(100g)			29 × 29 × 42 mm(100g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)			
Lens Mount	C-Mount			
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O			
Power Input	DC 9-24V; PoE			
Power Consumption	12V@3.2W			
Software				
Driver	Mars Series camera Software Suite (iCentral) or 3rd party GigE Vision Software			
Operating System	Windows, Linux			
Conformity	GigE Vision, GenICam			

	Mars25MP-4gm/gc	Mars25MG-4gm/gc	Mars31MS-3gm/gc
Camera			
Resolution[H*V pixels]	5120 x 5120	5120 x 5120	6464 × 4852
Sensor	PYTHON25K	Gpixel	IMX342
Sensor 尺寸	23.0 × 23.0 mm	1.1"	22.3 mm × 16.7 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	4.5 x 4.5	2.5 x 2.5	3.45 x 3.45
Frame Rate [FPS]	4	4	3.6
Data Bits	10 bit	12 bit	12 bit
Exposure Time	35μs~1s	5μs~1s	3μs~15s
Dynamic Range	58dB	>64dB	73dB
Mono/Color	Mono / Color	Mono / Color	Mono / Color
Image Format	Mono:Mono8/10/10Packed Color:Mono8,BayerRG8/10/10Packed,BayerGB8/10/10Packed, YUV422Packed	Mono:Mono8/10/10Packed/12/12Packed Color:Mono8,BayerRG8/10/10Packed/12/12Packed, BayerGB8/10/10Packed/12/12Packed,YUV422Packed	
Interface	Gigabit Ethernet (1000 Mbit/s)		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	76 × 76 × 42.5 mm(370g)	29 × 44 × 58 mm(100g)	72 × 72 × 64 mm(487g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)		
Lens Mount	M58*0.75(FBL:11.48±0.15)	C-Mount	M58*0.75(FBL:11.48±0.15)
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232
Power Input	DC 12-24V	DC 9-24V; PoE	DC 12-24V
Power Consumption	24V@9W	12V@4W	24V@7.8W
Software			
Driver	Mars Series camera Software Suite (iCentral) or 3rd party GigE Vision Software		
Operating System	Windows, Linux		
Conformity	GigE Vision, GenICam		

	Mars46MD-2gm/gc	Mars65MG-2gm/gc
Camera		
Resolution[H*V pixels]	9344 x 5000	9344 x 7000
Sensor	-	GMAX3265
Sensor 尺寸	29.9 x 16.0 mm	29.9 x 22.4 mm
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.2 × 3.2	3.2 × 3.2
Frame Rate [FPS]	2.6	1.7
Data Bits	12 bit	12 bit
Exposure Time	16μs~15s	16μs~15s
Dynamic Range	66dB	66dB
Mono/Color	Mono / Color	Mono / Color
Image Format	Mono:Mono8/10/10Packed/12/12Packed Color:Mono8,BayerRG8/10/12/10Packed/12Packed,BayerGB8/10/12/10Packed/12Packed, YUV422 Packed/YUV422_8	
Interface	Gigabit Ethernet (1000 Mbit/s)	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	72 × 72 × 65 mm(482g)	
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M58*0.75(FBL:11.48±0.15)	
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC 12-24V	
Power Consumption	24V@8.4W	
Software		
Driver	Mars Series camera Software Suite (iCentral) or 3rd party GigE Vision Software	
Operating System	Windows, Linux	
Conformity	GigE Vision, GenICam	

	LEO 12MS-9gm-Lite	LEO 12MS-9gm/gc	LEO 16MD-7gm
Camera			
Resolution[H*V pixels]	4096 × 3000		4000 × 4000
Sensor	IMX304		-
Sensor 尺寸	1.1"		1.1"
Sensor Technology	CMOS, Global		CMOS, Global
Pixel Size [μm]	3.45 × 3.45		3.2 × 3.2
Frame Rate [FPS]	9.4		7.25
Data Bits	12 bit		8 / 10 / 12 bit
Exposure Time	Ultra Short Exposure Mode:1μs~14μs 15μs~10s		12μs~10s
Dynamic Range	>70dB		65dB
Mono/Color	Mono	Mono / Color	Mono
Image Format	Mono: Mono8/10/10p/12/12p Color:Mono 8/10/12,Bayer RG 8/10/10p/12/12p, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8		Mono8/10/12
Interface	Gigabit Ethernet (1000 Mbit/s)		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	42 × 29 × 29 mm(100g)	44 × 29 × 59 mm(100g)	
Operating Temperature	-30~70 ° C (Storage), -10~50° C (Working)		
Lens Mount	C-Mount	C-Mount	C-Mount
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O		
Power Input	DC 9-24V;PoE	DC 9-24V;PoE	DC 9-24V;PoE
Power Consumption	12V @2.9W	Mono12V @2.9W Color12V @3W	12V @3.72W
Software			
Driver	LEO series camera software suite or third-party GigE vision protocol software		
Operating System	Windows, Linux		
Conformity	GigE Vision, GenICam		

	LEO 25MP-5gm/gc/gNIR	LEO 31MS-4gm/gc
Camera		
Resolution[H*V pixels]	5120 × 5120	6464 × 4852
Sensor	GMAX0505	IMX342
Sensor 尺寸	1.1"	22.3 mm × 16.7 mm
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	2.5 × 2.5	3.45 × 3.45
Frame Rate [FPS]	4.5	3.9
Data Bits	8 / 10 / 12 bit	8 / 10 / 12 bit
Exposure Time	12μs~10s	Ultra Short Exposure Mode:3s~33μs 36μs~2s(Color36μs~10s)
Dynamic Range	63dB	73dB
Mono/Color	Mono / Color / NIR	Mono / Color
Image Format	Mono / NIR: Mono8/10/10p/12/12p Color:Mono 8/10/12,Bayer RG 8/10/10p/12/12p YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8	
Interface	Gigabit Ethernet (1000 Mbit/s)	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	44 × 29 × 59 mm(100g)	F:74 × 74 × 80.1 mm(600g) M58:74 × 74 × 74.3 mm(550g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	C-Mount	F(FBL:46.5mm) / M58*0.75(FBL:11.48mm)
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232
Power Input	DC 9-24V;PoE	DC 9-24V
Power Consumption	Mono/NIR12V @3.1W Color12V @3.2W	12V @9W
Software		
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows, Linux	
Conformity	GigE Vision, GenICam	

	Mars12MS-23um/uc	Mars12MS-30um/uc	Mars25MG-14um/uc
Camera			
Resolution[H*V pixels]	4096 × 3000	4096 × 3000	5120 × 5120
Sensor	IMX304	IMX253	Gpixel
Sensor 尺寸	1.1"	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 × 3.45	3.45 × 3.45	2.5 × 2.5
Frame Rate [FPS]	23.4	30	14
Data Bits	8 / 10bit	8 / 10bit	8 / 10bit
Exposure Time	29μs~1s	26μs~1s	5μs~1s
Dynamic Range	>70dB	>70dB	>64dB
Mono/Color	Mono / Color	Mono / Color	Mono / Color
Image Format	Mono: Mono8/10/10p Color:Bayer RG 8/10/10p,Bayer GB 8/10/10p		
Interface	USB 3.0		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	44 × 29 × 58 mm(100g)	44 × 29 × 58 mm(100g)	44 × 29 × 58 mm(100g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)		
Lens Mount	C-Mount		
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O		
Power Input	DC 9-24V / USB3.0	DC 9-24V / USB3.0	DC 9-24V / USB3.0
Power Consumption	12V @4W	12V @4.2W	12V @4W
Software			
Driver	Mars Series camera Software Suite (iCentral) or 3rd party USB3 Vision Software		
Operating System	Windows, Linux		
Conformity	USB3 Vision, GenICam		

	LEO 12MS-23um/uc	LEO 12MS-30um/uc	LEO 25MG-14um/uc
Camera			
Resolution[H*V pixels]	4096 × 3000	4096 × 3000	5120 × 5120
Sensor	IMX304	IMX304	GMAX0505
Sensor 尺寸	1.1"	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 × 3.45	3.45 × 3.45	2.5 × 2.5
Frame Rate [FPS]	30.5	30.3	14
Data Bits	8 / 10 / 12bit	8 / 10 / 12bit	8 / 10 / 12bit
Exposure Time	Ultra Short Exposure Mode:1s~14μs 15μs~10s	Ultra Short Exposure Mode:1s~14μs 15μs~10s	12μs~10s
Dynamic Range	>72dB	>72dB	63dB
Mono/Color	Mono / Color	Mono / Color	Mono / Color
Image Format	MonoMono8/10/10p/12/12p Color:Mono 8/10/12,Bayer RG 8/10/10p/12/12p, YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8		MonoMono8/10/10p/12/12p Color:Mono 8/10/12, Bayer BG 8/10/10Packed/12/12 Packed,YUV422Packed,YUV422_ YUYV_Packed,RGB 8,BGR 8
Interface	USB 3.0		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	44 × 29 × 59 mm(100g)	44 × 29 × 59 mm(100g)	44 × 29 × 59 mm(100g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		-30~70 ° C (Storage), 10~50° C (Working)
Lens Mount	C-Mount		
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O		
Power Input	DC 9-24V / USB3.0	DC 9-24V / USB3.0	DC 12-24V / USB3.0
Power Consumption	Mono5V @2.9W Color5V @3.2W	Mono5V @4.67W Color5V @4.7W	5V @3.6W
Software			
Driver	LEO series camera software suite or third-party USB3 vision protocol software		
Operating System	Windows, Linux		
Conformity	USB3 Vision, GenICam		

	Mars12MS-68Tgm/Tgc	Mars25MG-41Tgm/Tgc
Camera		
Resolution[H*V pixels]	4096 × 3000	5120 × 5120
Sensor	IMX253	GMAX0505
Sensor 尺寸	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 x 3.45	2.5 x 2.5
Frame Rate [FPS]	68	41
Data Bits	10 bit	12 bit
Exposure Time	1μs~15s	35μs~15s
Dynamic Range	>71dB	63dB
Mono/Color	Mono/Color	Mono/Color
Image Format	MonoMono8/10/10p ColorBayerRG8/10/10p, BayerGB8/10/10p	MonoMono8/10/10p/12/12p ColorBayerRG8/10/10p/12/12p, BayerGB8/10/10p/12/12p
Interface	10 GigE	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	72 × 72 × 78 mm(585g)	72 × 72 × 79 mm(600g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M58*0.75(FBL:11.48mm)	
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC 24V	DC 24V
Power Consumption	24V@18.7W	24V@19.4W
Software		
Driver	Mars Series camera Software Suite (iCentral) or 3rd party GigE Vision Software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

	Mars25MP-43Tgm/gc	Mars65MG-18Tgm/gc
Camera		
Resolution[H*V pixels]	5120 × 5120	9344 × 7000
Sensor	PYTHON25K	GMAX3265
Sensor 尺寸	23 × 23 mm	29.9 x 22.4 mm
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	4.5 x 4.5	3.2 x 3.2
Frame Rate [FPS]	43	17.4
Data Bits	10 bit	12 bit
Exposure Time	35μs~15s	16μs~15s
Dynamic Range	58dB	66dB
Mono/Color	Mono/Color	Mono/Color
Image Format	MonoMono8/10/10Packed ColorBayerRG8/10/10p, BayerGB8/10/10p	MonoMono8 ColorBayerRG8/BayerGB8
Interface	10 GigE	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	72 × 72 × 78.5 mm(585g)	72 × 72 × 80 mm(600g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M58*0.75(FBL:11.48mm)	
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC 24V	DC 9-24V
Power Consumption	24V@21.6W	24V@20.16W
Software		
Driver	Mars Series camera Software Suite (iCentral) or 3rd party GigE Vision Software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

	LEO 12MS-68Tgm/Tgc(V2)	LEO 24MS-35Tgm	LEO 25MD-30Tgm
Camera			
Resolution[H*V pixels]	4096 × 3000	5328 × 4600	5120 × 5120
Sensor	IMX253	IMX540	-
Sensor 尺寸	1.1"	1.2"	23 mm× 23 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 × 3.45	2.74 x 2.74	4.5 x 4.5
Frame Rate [FPS]	68.3	35.1	31.7
Data Bits	8 / 10 / 12 bit	8 / 10 / 12 bit	8 / 10 / 12 bit
Exposure Time	Ultra Short Exposure Mode:2s~14μs 15μs~10s	Ultra Short Exposure Mode:1s~7μs 8μs~10s	15μs~10s
Dynamic Range	>71dB	71dB	66dB
Mono/Color	Mono / Color	Mono	Mono
Image Format	Mono: Mono8/10/10p/12/12p ColorMono 8,Bayer RG 8,YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8		
Interface	10 GigE		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	74 × 74 × 72.4 mm(550g)	84 × 84 × 62.5 mm(600g)	74 × 74 × 78.8 mm(550g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		
Lens Mount	M58*0.75(FBL11.48mm)	C-Mount(FBL17.52mm) M58*0.75(FBL11.48mm)	M58*0.75(FBL11.48mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232		
Power Input	DC 9-24V	DC 9-24V	DC 12-24V
Power Consumption	Mono24V @9.6W Color24V @10.1W	12V @10W	12V @15.1W
Software			
Driver	LEO series camera software suite or third-party GigE vision protocol software		
Operating System	Windows		
Conformity	GigE Vision, GenICam		

	LEO 25MG-40Tgm/Tgc/TgNIR	LEO 31MS-17Tgm/gc
Camera		
Resolution[H*V pixels]	5120 × 5120	6464 × 4852
Sensor	GMAX0505	IMX342
Sensor 尺寸	1.1"	22.3 mm × 16.7 mm
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	2.5 × 2.5	3.45 x 3.45
Frame Rate [FPS]	41.5	17.2
Data Bits	8 / 10 / 12 bit	8 / 10 / 12 bit
Exposure Time	13μs~10s	4μs~10s
Dynamic Range	63dB	73dB
Mono/Color	Mono / Color /NIR	Mono / Color
Image Format	Mono /NIR: Mono8/10/10p/12/12p Color:Mono 8/10/12, Bayer BG 8/10/10Packed/12/12Packed, YUV422Packed, YUV422_YUYV_Packed,RGB 8, BGR 8	Mono:Mono8/10/10p/12/12p Color:Mono 8/10/12, Bayer RG 8/10/10Packed/12/12Packed. YUV422Packed,YUV422_YUYV_Packed,RGB 8,BGR 8
Interface	10 GigE	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	74 × 74 × 78.8 mm(550g)	74 ×74 × 64.4 mm(560g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	C(FBL17.52mm) M58*0.75(FBL11.48mm)	M58*0.75(FBL11.48mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232	
Power Input	DC 9-24V	DC 9-24V
Power Consumption	Mono12V @9.7W Color12V @10W	Mono12V @11.5W Color12V @11.4W
Software		
Driver	LEO series camera software suite or third-party GigE vision protocol software	
Operating System	Windows	
Conformity	GigE Vision, GenICam	

	LEO 50MG-15Tgm/Tgc	LEO 65MG-15Tgm/gc	LEO 150MSC-6Tgm
Camera			
Resolution[H*V pixels]	7008 × 7000	9344 × 7000	14208 × 10640
Sensor	GMAX	GMAX3265	IMX411
Sensor 尺寸	22.4 mm × 22.4 mm	29.9 mm × 22.4 mm	66.7 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Rolling
Pixel Size [μm]	3.2 × 3.2	3.2 × 3.2	3.76 × 3.76
Frame Rate [FPS]	15.5	17.2	6.2
Data Bits	8 / 10 / 12 bit	8 / 10 / 12 bit	12/16 bit
Exposure Time	15μs~10s	18μs~10s	15μs~10s
Dynamic Range	66dB	66dB	>78dB
Mono/Color	Mono / Color	Mono / Color	Mono
Image Format	Mono:Mono8/10/10p/12/12p Color:Mono 8/10/12,Bayer BG 8/10/10Packed/12/12Packed, YUV422Packed,YUV422_YUYV_ Packed,RGB 8,BGR 8	Mono:Mono8/10/10p/12/12p Color:Mono 8/10/12,Bayer RG 8/10/10Packed/12/12Packed, YUV422Packed,YUV422_YUYV_ Packed,RGB 8,BGR 8	Mono 8/10/10Packed/ 12/12Packed/16
Interface	10 GigE		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	M58:74 × 74 × 78.8 mm(550g) F:74 × 74 × 84.8 mm(600g)		120 × 120 × 89 mm(2500g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		
Lens Mount	F(FBL:46.5mm) / M58*0.75(FBL:11.48mm)		M72*0.75(FBL:19.55 mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232		
Power Input	DC 9-24V	DC 9-24V	DC 24V
Power Consumption	Mono12V @11W Color12V @12W	Mono12V @10.2W Color12V @12W	24V @11.28W(Without TEC) 24V @48.96W(TEC)
Software			
Driver	LEO series camera software suite or third-party GigE vision protocol software		
Operating System	Windows		
Conformity	GigE Vision, GenICam		

	Mars12MS-20cm/cc	Mars25MG-30cm	Mars31MS-25cm/cc
Camera			
Resolution[H*V pixels]	4096 × 3000	5120 × 5120	6240 × 4848
Sensor	IMX304	Gpixel	IMX342
Sensor 尺寸	1.1"	1.1"	22.3 × 16.7 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 × 3.45	2.5 × 2.5	3.45 × 3.45
Frame Rate [FPS]	20	30	24.8 (80M,10TAP)
Data Bits	10 bit	30 bit	10 bit
Exposure Time	29μs~1s	35μs~1s	3us ~ 15s
Dynamic Range	>70dB	>64dB	73dB
Mono/Color	Mono / Color	Mono	Mono / Color
Image Format	Mono:Mono8/10/10Packed Color:BayerRG8/10	Mono8/10	Mono:Mono8/10/12 Color:BayerRG8/10/12, BayerGB8/10/12
Mode	Base	Base/Medium/Full/Deca	-
Pixel Clock	34M/51M/68M/85M	34M/51M/68M/85M	-
Interface	Cameralink		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	43.8 x 29 x 29 mm(80g)	58 x 29 x 44 mm(100g)	72 x 72 x 64.1 mm(500g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)		
Lens Mount	C-Mount	C-Mount	M58*0.75(FBL:11.48mm)
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O		12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232
Power Input	PoCL/ DC 9V~24V	PoCL/ DC 9V~24V	DC 24V
Power Consumption	12V @2.4W	12V @4W	24V @16.8W
Software			
Driver	Mars Series camera Software Suite or frame grabber software meeting with GenICam Protocol		
Operating System	Windows		
Conformity	CameraLink , GenICam		

	Mars46MD-18cm/cc	Mars65MG-13cm/cc	Mars150MS-5cm
Camera			
Resolution[H*V pixels]	9280 × 4992	9280 × 6992	14160 × 10640
Sensor	-	GMAX3265	IMX411
Sensor 尺寸	29.9 × 16.0 mm	29.9 × 22.4 mm	53.4 × 40.0 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Rolling
Pixel Size [μm]	3.2 × 3.2	3.2 × 3.2	3.76 × 3.76
Frame Rate [FPS]	17.5 (85M,10TAP)	12.5 (85M,10TAP)	5.1 (80M,10TAP)
Data Bits	12bit	12bit	12bit
Exposure Time	16μs ~ 15s	16μs ~ 15s	3μs ~ 15s
Dynamic Range	66dB	66dB	90dB
Mono/Color	Mono/Color	Mono / Color	Mono
Image Format	Mono:Mono8 Color:BayerGB8,BayerRG8		Mono8/10/12
Mode	Base/Medium/Full/Deca	Base/Medium/Full/Deca	Base/Medium/Full/Deca
Pixel Clock	34M/51M/68M/85M	34M/51M/68M/85M	34M/51M/68M/85M
Interface	Cameralink		
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	72 x 72 x 65 mm(490g)		100 × 100 × 65.7 mm(890g)
Operating Temperature	-30~80 ° C (Storage), -10~50° C (Working)		
Lens Mount	M58*0.75(FBL:11.48mm)	M58*0.75(FBL:11.48mm)	M72*0.75(FBL:19.55 mm)
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232		
Power Input	DC 12-24V	DC 12-24V	DC 24V
Power Consumption	24V @6.83W	24V @6.83W	24V @18W
Software			
Driver	Mars Series camera Software Suite or frame grabber software meeting with GenICam Protocol		
Operating System	Windows		
Conformity	CameraLink , GenICam		

	LEO 12MS-70cm/cc	LEO 12MS-23cm
Camera		
Resolution[H*V pixels]	3840 × 3000	4096 × 3000
Sensor	IMX253	IMX304
Sensor 尺寸	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.45 ×3.45	3.45 ×3.45
Frame Rate [FPS]	68.1	23.4
Data Bits	12bit	12bit
Exposure Time	1μs ~ 10s	Ultra Short Exposure Mode:1s~14μs 15μs~10s
Dynamic Range	>71dB	>72dB
Mono/Color	Mono / Color	Mono
Image Format	MonoMono 8/10/12 ColorBayer RG 8/10/12,RGB 8	Mono 8/10/12
Mode	Base、Medium、Full、80-bit	Base、Medium
Pixel Clock	Mono60 MHz，70 MHz，85 MHz Color40 MHz，60 MHz，70 MHz，85 MHz	40 MHz，66 MHz，85 MHz
Interface	Cameralink	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	44 mm × 29 mm × 59 mm(100g)	
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	C-Mount	C-Mount
Digital I/O	6Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O	
Power Input	DC 9-24V	DC 9-24V
Power Consumption	12V @4.5W	12V @3.48W
Software		
Driver	LEO Series camera Software Suite or frame grabber software meeting with GenICam Protocol	
Operating System	Windows	
Conformity	CameraLink , GenICam	

	LEO 100MS-8cm	LEO 100MSC-8cm/cc
Camera		
Resolution[H*V pixels]	11520 × 8740	11520 × 8740
Sensor	IMX461	IMX461
Sensor 尺寸	55 mm	55 mm
Sensor Technology	CMOS, Rolling	CMOS, Rolling
Pixel Size [μm]	3.76 × 3.76	3.76 × 3.76
Frame Rate [FPS]	8.1	8.1
Data Bits	12bit	12bit
Exposure Time	14μs ~ 10s	14μs ~ 10s
Dynamic Range	78dB	78dB
Mono/Color	Mono	Mono / Color
Image Format	ADC 12bit ： Mono 8/10/12 ADC 16bit ： Mono 8/10/12/16	MonoADC 12bit ： Mono 8/10/12 MonoADC 16bit ： Mono 8/10/12/16 ColorBayer RG 8/10/12/16
Mode	Base、Medium、Full、80-bit	
Pixel Clock	40 MHz， 60 MHz， 70 MHz， 85 MHz	
Interface	Cameralink	
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	90 × 90 × 71.5 mm(790g)	100 × 100 × 87.2 mm(1700g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M72*0.75(FBL:19.55mm)	
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232	
Power Input	DC 12~24 V	DC 24 V
Power Consumption	24V @14W	24V @14W(Without TEC) 24V @48W(TEC)
Software		
Driver	LEO Series camera Software Suite or frame grabber software meeting with GenICam Protocol	
Operating System	Windows	
Conformity	CameraLink Vision, GenICam	

CoaXPress®

	Mars12MC-188xm/xc	Mars12MC-330xm/xc	Mars21MG-220xm
Camera			
Resolution[H*V pixels]	4096 × 3072	4096 × 3072	5120 × 4096
Sensor	CMV12000	CMV12000	GSPRINT4521
Sensor 尺寸	22.5 × 16.9 mm	22.5 × 16.9 mm	23.0 × 18.4 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	5.5 x 5.5	5.5 x 5.5	4.5 x 4.5
Frame Rate [FPS]	188	330	219
Data Bits	10bit	12bit	12bit
Exposure Time	50μs~5s	50μs~5s	4μs~5s
Dynamic Range	60dB	60dB	69dB
Mono/Color	Mono / Color	Mono / Color	Mono
Image Format	Mono:Mono8/10/12 Color:BayerGR8/10/12,BayerRG8/10/12,BayerGB8/10/12,BayerBG8/10/12		
Interface	CXP-6(DIN)	CXP-12(Micro-BNC)	CXP-12(Micro-BNC)
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	M58/F:72 × 72 × 72 mm(720g) M42:80 × 80 × 47mm(720g)	80 × 80 × 72.3mm(790g)	80 × 80 × 75 mm(780g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)		
Lens Mount	M58*0.75(FBL:11.48mm) M42*1(FBL:11.48mm) F(FBL:46.5mm)	M58*0.75(FBL:11.48mm)	M58*0.75(FBL:11.48mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232		
Power Input	DC 24V		DC 24V
Power Consumption	24V@15W	24V@24W	24V@34.5W
Software			
Driver	Frame grabber software meeting with CoaXPress Protocol		
Operating System	Windows		
Conformity	CoaxPress , GenICam		

CoaXPress®

	Mars25MG-90xm/xc	Mars25MG-150xm/xc	Mars25MG-42xm
Camera			
Resolution[H*V pixels]	5120× 5120	5120 × 5120	5120 × 5120
Sensor	GMAX0505	GMAX0505	GMAX0505
Sensor 尺寸	1.1"	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	2.5 x 2.5	2.5 x 2.5	2.5 x 2.5
Frame Rate [FPS]	90	150	42
Data Bits	10 bit	8 bit	12 bit
Exposure Time	15μs~5s	15μs~5s	25μs~5s
Dynamic Range	63dB	63dB	63dB
Mono/Color	Mono / Color	Mono / Color	Mono
Image Format	Mono: Mono8/10/12 Color:BayerGR8/10/12,BayerRG8/10/12,BayerGB8/10/12,BayerBG8/10/12		
Interface	CXP-6(DIN)	CXP-12(Micro-BNC)	CXP-6(DIN)
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	72 × 72 × 70 mm(720g)	M58:80 × 80 × 72 mm(890g) M42:80 × 80 × 65.3 mm(890g)	50 × 50 × 45 mm(240g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)		
Lens Mount	M58*0.75(FBL:11.48mm)	M58*0.75(FBL:11.48mm) M42*1(FBL:11.48mm)	C-Mount
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O		
Power Input	DC 12-24V;PoCXP	DC 24V;PoCXP	DC 24V;PoCXP
Power Consumption	24V@13W	24V@19.4W	24V @8W
Software			
Driver	Frame grabber software meeting with CoaXPress Protocol		
Operating System	Windows		
Conformity	CoaxPress , GenICam		

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	Mars50MC-30xm/xc	Mars46MD-44xm/xc	Mars65MG-31xm/xc	Mars65MG-71xm/xc
Camera				
Resolution[H*V pixels]	7920 × 6004	9344 × 5000	9216 × 7000	9216 × 7000
Sensor	CMV50000	-	GMAX3265	GMAX3265
Sensor 尺寸	36.4 × 27.6 mm	29.9 x 16.0 mm	29.9 × 22.4 mm	29.9 × 22.4 mm
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	4.6 x 4.6	3.2 x 3.2	3.2 × 3.2	3.2 × 3.2
Frame Rate [FPS]	30	44	31	71
Data Bits	12 bit	12 bit	12 bit	10 bit
Exposure Time	50μs~5s	27μs~5s	27μs~5s	27μs~5s
Dynamic Range	64dB	60dB	66dB	66dB
Mono/Color	Mono / Color	Mono / Color	Mono / Color	Mono / Color
Image Format	Mono:Mono8/10/12 Color:BayerBG8/10/12	Mono: Mono8/10/12 Color:BayerRG8/10/12		Mono: Mono8/10/12 Color:BayerGB8/10/12
Interface	CXP-6(DIN)	CXP-6(DIN)		CXP-12(Micro-BNC)
Synchronization	Via hardware trigger, software trigger or free run			
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction			
Electrical				
Housing Size	M58/F: 72 × 72 × 91 mm(720g)	72 x 72 x 69.8 mm(690g)		80 x 80 x 73.4 mm(790g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)			
Lens Mount	M58*0.75(FBL:11.48mm) F(FBL:46.5mm)	M58*0.75(FBL:11.48mm)		
Digital I/O	6Pin:3 bidirectional custom non-isolation I/O	12Pin:3 opto-isolated input, 3 opto-isolated output,1 RS232		
Power Input	DC 12-24V;PoCXP	DC 24V;PoCXP		
Power Consumption	24V @15W	24V@21.6W		24V@24W
Software				
Driver	Frame grabber software meeting with CoaXPress Protocol			
Operating System	Windows			
Conformity	CoaxPress , GenICam			

	Mars150MS-6xm/xc	Mars150MSC-6xm/xc
Camera		
Resolution[H*V pixels]	14192 × 10640	14192 × 10640
Sensor	IMX411	IMX411
Sensor 尺寸	53.4 × 40mm	53.4 × 40mm
Sensor Technology	CMOS, Rolling	CMOS, Rolling
Pixel Size [μm]	3.76 × 3.76	3.76 × 3.76
Frame Rate [FPS]	6.1	6.2
Data Bits	12 bit	12 bit
Exposure Time	30μs~6.5s	30μs~5s
Dynamic Range	90dB	78dB
Mono/Color	Mono /Color	Mono /Color
Image Format	Mono:Mono8/10/12 Color:BayerRG8/10/12, BayerBG8/10/12	Mono:Mono8/10/12 Color:Bayer 8/10/12
Interface	CXP-6(DIN)	CXP-6(DIN)
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	100 × 100 × 65.7 mm(890g)	100 × 100 × 90.1mm(1000g)
Operating Temperature	-30~80 ° C (Storage), -30~50° C (Working)	
Lens Mount	M72*0.75(FBL:19.55mm)	M72*0.75(FBL:19.55mm)
Digital I/O	12Pin:3 opto-isolated input, 3 opto-isolated output, 1 RS232	
Power Input	DC 24V;PoCXP	DC 24V;PoCXP
Power Consumption	24V @18W	24V @51.6W
Software		
Driver	Frame grabber software meeting with CoaXPress Protocol	
Operating System	Windows	
Conformity	CoaPress , GenICam	

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	LEO 21MG-220xm/xc	LEO 25MG-150xm/xc	LEO 25MG-41xm
Camera			
Resolution[H*V pixels]	5120 × 4096	5120 × 5120	5120 × 5120
Sensor	Gsprint4521	GMAX0505	GMAX0505
Sensor 尺寸	23.04 × 18.43 mm	1.1"	1.1"
Sensor Technology	CMOS, Global	CMOS, Global	CMOS, Global
Pixel Size [μm]	4.5 × 4.5	2.5 × 2.5	2.5 × 2.5
Frame Rate [FPS]	222	150	41.5
Data Bits	8 / 10 / 12bit	8 / 10 / 12bit	8 bit
Exposure Time	4μs~10s	13μs~10s	13μs~10s
Dynamic Range	65dB	63dB	65dB
Mono/Color	Mono /Color	Mono /Color	Mono
Image Format	Mono:Mono8/10/12 Color:Bayer GB8/10/12	Mono: Mono8/10/12 Color:Bayer 8/10/12	Mono8/10/12
Interface	CXP-12(Micro-BNC)	CXP-12(Micro-BNC)	CXP-6(DIN)
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	M58: 84 × 84 × 62.5 mm(650g)	C： 80 × 80 × 80 mm(530g) M58： 80 × 80 × 80 mm(540g)	50 × 50 × 45 mm(210g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		
Lens Mount	M58*0.75(FBL:11.48mm)	C(FBL:17.52mm) M58*0.75(FBL:11.48mm)	C(FBL:17.52mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232		
Power Input	DC 12-24 V;PoCXP	DC 9-24V;PoCXP	DC 9-24V;PoCXP
Power Consumption	Mono:24V @18W Color:24V @16.3W	12V @13.7W	12V @7W
Software			
Driver	Frame grabber software meeting with CoaXPress Protocol		
Operating System	Windows		
Conformity	CoaPress , GenICam		

	LEO 65MG-32xm/xc	LEO 65MG-71xm/xc
Camera		
Resolution[H*V pixels]	9216 × 7000	9216 × 7000
Sensor	GMAX3265	GMAX3265
Sensor 尺寸	29.9 × 22.4 mm	29.9 × 22.4 mm
Sensor Technology	CMOS, Global	CMOS, Global
Pixel Size [μm]	3.2 × 3.2	3.2 × 3.2
Frame Rate [FPS]	31.5	71
Data Bits	8 / 10 / 12bit	8 / 10 / 12bit
Exposure Time	14μs ~ 10s	14μs ~ 10s
Dynamic Range	66dB	66dB
Mono/Color	Mono / Color	Mono / Color
Image Format	MonoMono 8/10/12 ColorBayer BG 8/10/12	MonoMono 8/10/12 ColorBayer BG 8/10/12
Interface	CXP-6(DIN)	CXP-12(Micro-BNC)
Synchronization	Via hardware trigger, software trigger or free run	
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Electrical		
Housing Size	M58：74 ×74 ×70.4 mm(470g) F：74 ×74 ×76.4 mm(500g)	84 x 84 × 62.5 mm(650g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)	
Lens Mount	M58*0.75(FBL:11.48mm) F(FBL:46.5mm)	M58*0.75(FBL:11.48mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232	
Power Input	DC 9-24 V;PoCXP	DC 9-24 V;PoCXP
Power Consumption	24V@10.5 W	Mono24V@13 W Color24V@13.2 W
Software		
Driver	Frame grabber software meeting with CoaXPress Protocol	
Operating System	Windows	
Conformity	CoaXPress, GenICam	

CoaXPress®

	LEO 150MS-6xm/xc	LEO 150MSC-6xm/xc	LEO 600MS-2xm
Camera			
Resolution[H*V pixels]	14208 × 10640	14208 × 10640	28416 × 21280
Sensor	IMX411	IMX411	IMX411
Sensor 尺寸	66.7 mm	66.7 mm	66.7 mm
Sensor Technology	CMOS, Rolling	CMOS, Rolling	CMOS, Rolling
Pixel Size [μm]	3.76 × 3.76	3.76 × 3.76	3.76 × 3.76
Frame Rate [FPS]	6.2	6.2	1.45
Data Bits	8 / 10 / 12 / 16bit	8 / 10 / 12 / 16bit	8 / 10 / 12 / 16bit
Exposure Time	15μs~10s	15μs~10s	15μs~1s
Dynamic Range	>78dB	>78dB	>78dB
Mono/Color	Mono/Color	Mono/Color	Mono
Image Format	Mono:Mono 8/10/12/16 Color:Mono 8/10/12/16,Bayer RG 8/10/12/16, RGB 8		
Interface	CXP-6(DIN)	CXP-6(DIN)	CXP-6(DIN)
Synchronization	Via hardware trigger, software trigger or free run		
Programmable Control [ISP]	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction		
Electrical			
Housing Size	100 × 100 × 74.3 mm(1000g)	120 × 120 × 84.6 mm(1900g)	100 × 100 × 128.5 mm(1400g)
Operating Temperature	-30~70 ° C (Storage), 0~50° C (Working)		
Lens Mount	M72*0.72(FBL:19.55mm)	M72*0.72(FBL:19.55mm)	M72*0.72(FBL:19.55mm)
Digital I/O	12Pin:1 opto-isolated input, 1 opto-isolated output,1 bidirectional custom non-isolation I/O,1 RS232		
Power Input	12-24 VDC	24 VDC	24 VDC
Power Consumption	Mono:24V@18W Color:24V@21W	Mono 24V@21W(Without TEC) 24V@55W(TEC) Color 24V@22W(Without TEC) 24V@60W(TEC)	24V@15W
Software			
Driver	Frame grabber software meeting with CoaXPress Protocol		
Operating System	Windows		
Conformity	CoaXPress, GenICam		

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