

Machine Vision Cameras



www.crevis.co.kr



Machine Vision Camera Manufacturer in Korea

Established in 2000. 09

Total Automation Solution

End-to-end solutions covering vision, control, and motion for process automation.

Strong R&D Capability

Over 40% of workforce dedicated to R&D, with extensive ODM/OEM experience and full customization support.

Domestic Manufacturer (Crevis)

Faster and more responsive technical support than overseas competitors, with competitive pricing and minimal FX impact.

Stable Quality & Delivery

In-house SMT lines, clean room facilities, and controlled temperature/humidity material management.

Certified to Global Standards : CE, RoHS, UL, FCC



1. 신규 SDK 출시 (cvsCam)

- A. 지원 인터페이스 : GigE Vision, USB3.0
- B. eBus 드라이버 적용 : CPU 부하 감소 및 안정성 향상
- C. Windows, Linux OS 및 Python 개발 환경 지원

2. 크래비스 비전 라이브러리 출시 (CVS Vision Library)

- A. 템플릿 매치, BLOB, 치수측정, BCR 등 20여개의 툴 제공
- B. 크래비스 카메라 사용 시 무상 제공

1. New SDK Release (cvsCam)

- A. Supports GigE Vision and USB 3.0 interfaces
- B. Integrated eBus driver for reduced CPU load and improved stability
- C. Compatible with Windows, Linux, and Python development environments

2. CVS Vision Library Release

- A. Provides 20+ vision tools, including template matching, BLOB analysis, dimensional measurement, and barcode reading (BCR)
- B. Free of charge when used with Crevis cameras



Camera Comparison Chart

Special

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Interface	Model	Resolution	Imaging	Optical Format	fps	Dimension (mm)
GigE	HG-A130SW	1296 x 1032	SWIR	1/2	72	55 x 55 x 74
GigE	HG-T130SW	1236 x 960	SWIR	2/3	50	55 x 55 x 85
CameraLink	HC-A130SW	1296 x 1032	SWIR	1/2	134	55 x 55 x 74
CXP-12	HX-A130SW	1296 x 1032	SWIR	1/2	134	55 x 55 x 74
CXP-12	HX-A530SW	2592 x 2056	SWIR	1/1.4	131	55 x 55 x 74
GigE	MG-A500P-22	2464 x 2056	Polarization	2/3	22	29 x 29 x 40
GigE	MG-A121P-9	4112 x 3008	Polarization	1.1	9	29 x 29 x 40
CameraLink	MC-A500P-163	2464 x 2056	Polarization	2/3	163	29 x 29 x 29
CameraLink	MC-A121P-67	4096 x 3000	Polarization	1.1	67	29 x 29 x 29
CameraLink	TC-A160K-102	1456 x 1088	3-CMOS	1/2.9	102	44 x 44 x 63



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Interface	Model	Resolution (HxV)	Color	Optical Format	fps	Dimension (mm)
GigE	MG-A040M-280	728 x 544	Mono	1/2.9	280	29 x 29 x 40
GigE	MG-A040K-280	728 x 544	Color	1/2.9	280	29 x 29 x 40
GigE	MG-A160M-72	1456 x 1088	Mono	1/2.9	72	29 x 29 x 40
GigE	MG-A160K-72	1456 x 1088	Color	1/2.9	72	29 x 29 x 40
GigE	MG-A320M-35	2064 x 1544	Mono	1/1.8	35	29 x 29 x 40
GigE	MG-A320K-35	2064 x 1544	Color	1/1.8	35	29 x 29 x 40
GigE	MG-A500M-22	2464 x 2056	Mono	2/3	22	29 x 29 x 40
GigE	MG-A500K-22	2464 x 2056	Color	2/3	22	29 x 29 x 40
GigE	MG-A121M-9	4112 x 3008	Mono	1.1	9	29 x 29 x 40
GigE	MG-A121K-9	4112 x 3008	Color	1.1	9	29 x 29 x 40
GigE	MG-A600R-17	3088 x 2072	Mono	1/1.8	17	29 x 29 x 40
GigE	MG-A600L-17	3088 x 2072	Color	1/1.8	17	29 x 29 x 40
GigE	MG-A121R-9	4024 x 3036	Mono	1/1.7	9	29 x 29 x 40
GigE	MG-A121L-9	4024 x 3036	Color	1/1.7	9	29 x 29 x 40
GigE	MG-A201R-5	5496 x 3672	Mono	1	5	29 x 29 x 40
GigE	MG-A201L-5	5496 x 3672	Color	1	5	29 x 29 x 40
GigE	MG-A500M-FL	2472 x 2064	Mono	1/1.8	22	29 x 29 x 40
GigE	MG-A500K-FL	2472 x 2064	Color	1/1.8	22	29 x 29 x 40
GigE	MG-A121M-FL	4128 x 3008	Mono	1/1.1	9	29 x 29 x 40
GigE	MG-A121K-FL	4128 x 3008	Color	1/1.1	9	29 x 29 x 40
GigE	MG-A161M-FL	5328 x 3040	Mono	1.1	7	29 x 29 x 40
GigE	MG-A161K-FL	5328 x 3040	Color	1.1	7	29 x 29 x 40
GigE	MG-A241M-FL	5328 x 4608	Mono	1.2	4	29 x 29 x 40
GigE	MG-A241K-FL	5328 x 4608	Color	1.2	4	29 x 29 x 40



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Interface	Model	Resolution (HxV)	Color	Sensor	Optical Format	fps	Dimension (mm)
Cameralink	MC-A040M-523	720x540	Mono	IMX287	1/2.9	523	29 x 29 x 29
Cameralink	MC-A040K-523	720x540	Color	IMX287	1/2.9	523	29 x 29 x 29
Cameralink	MC-A160M-154	1440 x 1080	Mono	CMOS	1/2.9	154	29 x 29 x 29
Cameralink	MC-A160K-154	1440 x 1080	Color	CMOS	1/2.9	154	29 x 29 x 29
Cameralink	MC-A320M-55	2048 x 1536	Mono	CMOS	1/1.8	55	29 x 29 x 29
Cameralink	MC-A320K-55	2048 x 1536	Color	CMOS	1/1.8	55	29 x 29 x 29
Cameralink	MC-A500M-35	2448 x 2048	Mono	CMOS	2/3	35	29 x 29 x 29
Cameralink	MC-A500K-35	2448 x 2048	Color	CMOS	2/3	35	29 x 29 x 29

Camera Comparison Chart



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Interface	Model	Resolution (HxV)	Color	Optical Format	fps	Dimension (mm)
Cameralink	MC-A121M-20	4096 x 3000	Mono	1.1	20	29 x 29 x 29
Cameralink	MC-A121K-20	4096 x 3000	Color	1.1	20	29 x 29 x 29
Cameralink	MC-A121R-20	4016 x 3036	Mono	1/1.7	20	29 x 29 x 29
Cameralink	MC-A121L-20	4016 x 3036	Color	1/1.7	20	29 x 29 x 29
Cameralink	MC-A500M-163	2464 x 2056	Mono	2/3	163	29 x 29 x 29
Cameralink	MC-A500K-163	2464 x 2056	Color	2/3	163	29 x 29 x 29
Cameralink	MC-A121M-67	4096 x 3000	Mono	1.1	67	29 x 29 x 29
Cameralink	MC-A121K-67	4096 x 3000	Color	1.1	67	29 x 29 x 29
Cameralink	HC-F251M-31	5120 x 5120	Mono	1.1	31	50 x 50 x 34
Cameralink	HC-F251K-31	5120 x 5120	Color	1.1	31	50 x 50 x 34



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Interface	Model	Resolution	Color	Optical Format	fps	Dimension (mm)
CXP-6	MX-A040M-523	720 x 540	Mono	1/2.9	523	29 x 29 x 29
CXP-6	MX-A040K-523	720 x 540	Color	1/2.9	523	29 x 29 x 29
CXP-6	MX-A160M-276	1440 x 1080	Mono	1/2.9	276	29 x 29 x 29
CXP-6	MX-A160K-276	1440 x 1080	Color	1/2.9	276	29 x 29 x 29
CXP-6	MX-A320M-184	2064 x 1544	Mono	1/1.8	184	29 x 29 x 29
CXP-6	MX-A320K-184	2064 x 1544	Color	1/1.8	184	29 x 29 x 29
CXP-6	MX-A500M-116	2464 x 2056	Mono	2/3	116	29 x 29 x 29
CXP-6	MX-A500K-116	2464 x 2056	Color	2/3	116	29 x 29 x 29
CXP-6	MX-A890M-66	4096 x 2176	Mono	1	66	29 x 29 x 29
CXP-6	MX-A890K-66	4096 x 2176	Color	1	66	29 x 29 x 29
CXP-6	MX-A121M-23	4096 x 3000	Mono	1.1	23	29 x 29 x 29
CXP-6	MX-A121K-23	4096 x 3000	Color	1.1	23	29 x 29 x 29
CXP-6	MX-A121M-48	4096 x 3000	Mono	1.1	48	29 x 29 x 29
CXP-6	MX-A121K-48	4096 x 3000	Color	1.1	48	29 x 29 x 29
CXP-6	MX-A121R-43	4016 x 3036	Mono	1/1.7	43	29 x 29 x 29
CXP-6	MX-A121L-43	4016 x 3036	Color	1/1.7	43	29 x 29 x 29
CXP-6	MX-A201R-26	5488 x 3672	Mono	1	26	29 x 29 x 29
CXP-6	MX-A201L-26	5488 x 3672	Color	1	26	29 x 29 x 29
CXP-12	HX-F251M-150	5120 x 5120	Mono	1.1	150	80 x 80 x 41
CXP-12	HX-F251K-150	5120 x 5120	Color	1.1	150	80 x 80 x 41
CXP-12	HX-A241M-94	5328 x 4608	Mono	1.2	94	50 x 50 x 34
CXP-12	HX-F251M-75	5120 x 5120	Mono	1.1	75	50 x 50 x 34
CXP-12	HX-E671M-65	8192 x 8192	Mono	APS-C	65	80 x 80 x 44
CXP-12	HX-E671K-65	8192 x 8192	Color	APS-C	65	80 x 80 x 44



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Interface	Model	Resolution	Color	Optical Format	fps	Dimension (mm)
USB3.0	MU-A040M-523	728 x 544	Mono	1/2.9	523	29 x 29 x 29
USB3.0	MU-A040K-523	728 x 544	Color	1/2.9	523	29 x 29 x 29
USB3.0	MU-A160M-226	1456 x 1088	Mono	1/2.9	226	29 x 29 x 29
USB3.0	MU-A160K-226	1456 x 1088	Color	1/2.9	226	29 x 29 x 29
USB3.0	MU-A320M-118	2064 x 1544	Mono	1/1.8	118	29 x 29 x 29
USB3.0	MU-A320K-118	2064 x 1544	Color	1/1.8	118	29 x 29 x 29
USB3.0	MU-A320M-55	2064 x 1544	Mono	1/1.8	55	29 x 29 x 29
USB3.0	MU-A320K-55	2064 x 1544	Color	1/1.8	55	29 x 29 x 29

Camera Comparison Chart



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Interface	Model	Resolution	Color	Optical Format	fps	Dimension (mm)
USB3.0	MU-A500M-35	2464 x 2056	Mono	2/3	35	29 x 29 x 29
USB3.0	MU-A500K-35	2464 x 2056	Color	2/3	35	29 x 29 x 29
USB3.0	MU-A500M-75	2464 x 2056	Mono	2/3	70	29 x 29 x 29
USB3.0	MU-A500K-75	2464 x 2056	Color	2/3	70	29 x 29 x 29
USB3.0	MU-A121M-23	4112 x 3008	Mono	1.1	23	29 x 29 x 29
USB3.0	MU-A121K-23	4112 x 3008	Color	1.1	23	29 x 29 x 29
USB3.0	MU-A121R-31	4072 x 3046	Mono	1/1.7	30	29 x 29 x 29
USB3.0	MU-A121L-31	4072 x 3046	Color	1/1.7	30	29 x 29 x 29
USB3.0	MU-A201R-18	5496 x 3672	Mono	1	18	29 x 29 x 29
USB3.0	MU-A201L-18	5496 x 3672	Color	1	18	29 x 29 x 29

LineScan

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Interface	Model	Resolution	Color	Line Rate	Dimension (mm)
Cameralink	LV-M422C	2048 (H) x 2(V)	Mono	141KHz	50 x 50 x 40
Cameralink	LV-M824C	4096 (H) x 2(V)	Mono	141KHz	50 x 50 x 35.3
Cameralink	LV-M818C	8192 (H) x 1(V)	Mono	75KHz	80 x 80 x 34
Cameralink	LV-M8116C	16384 (H) x 1(V)	Mono	37.5KHz	80 x 80 x 34

SWIR Cameras



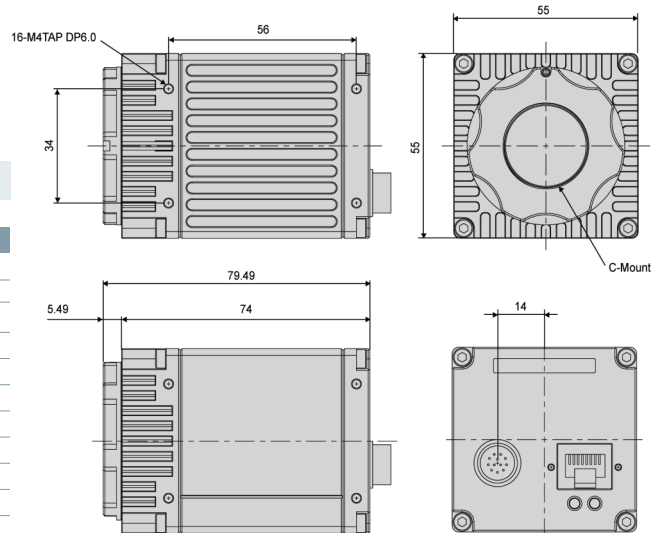
Key Features

- Sony InGaAs SWIR IMX990/992
- Supporting Sensor Cooling Auto Mode (TEC)
- Providing Heat sink for optional

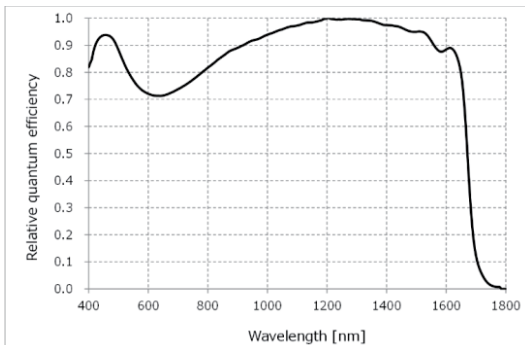
Pin map

No.	Name	IN/OUT	Description
1	GND	IN	Power GND
2	PWR	IN	10.8V ~ 26.4V Input Range
3	GP12_ISO-	IN	Trigger2 GND
4	GP12_ISO+	IN	Opto-Isolated Input, Trigger2 Input
5	GP11_ISO-	IN	Trigger1 GND
6	GP11_ISO+	IN	Opto-Isolated Input, Trigger1 Input
7	GPIO1	IN/OUT	General Purpose I/O 1
8	GND	IN	GPIO GND
9	-	-	-
10	GPIO2	IN/OUT	General Purpose I/O 2
11	PWR	IN	10.8V ~ 26.4V Input Range
12	GND	IN	Power GND

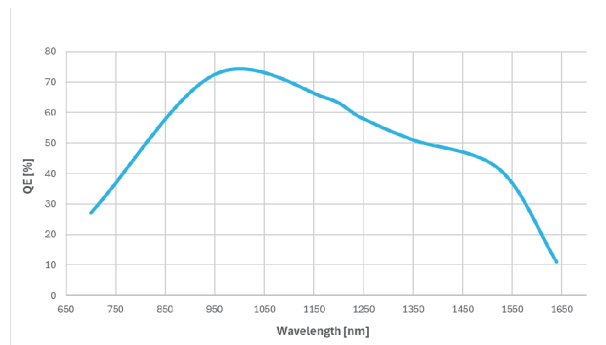
Dimension (Unit : mm)



Spectral Response



InGaAs SWIR

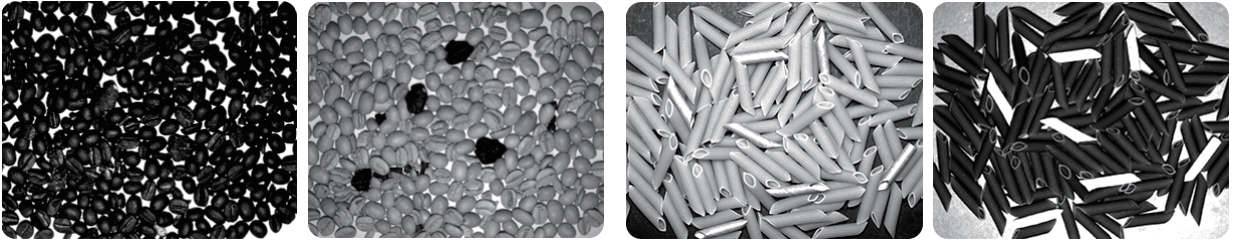


CMOS SWIR

1. 소재 식별 (Material Differentiation)

SWIR 이미징은 가시광에서는 동일해 보이는 물체도 소재 특성에 따라 구분할 수 있습니다.

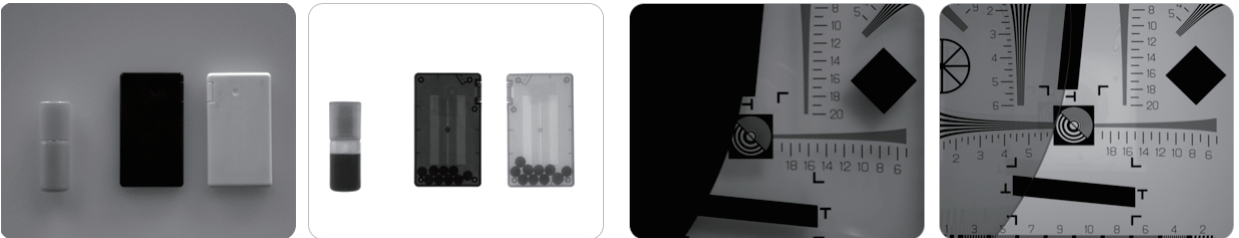
SWIR imaging distinguishes materials that appear identical in visible light by utilizing their unique SWIR absorption and reflection characteristics.



2. 소재 투과 검사 (Material Penetration Inspection)

SWIR 카메라는 실리콘, 웨이퍼, 플라스틱, 안개, 잉크 등을 투과하여 비접촉 검사가 가능합니다.

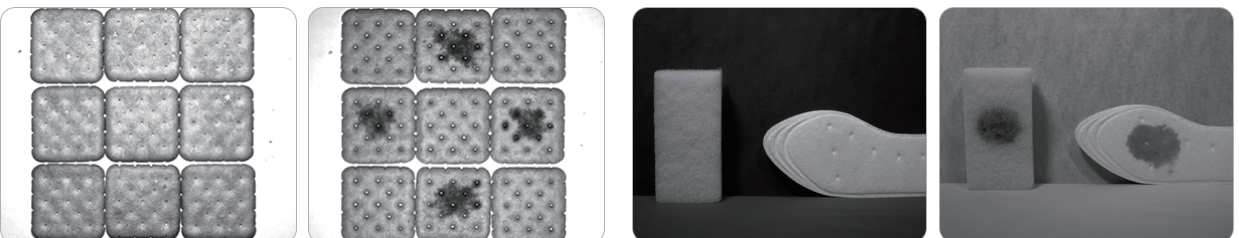
SWIR cameras enable non-contact inspection through materials such as silicone, wafers, plastics, fog, and inks.



3. 수분 검출 (Moisture Detection)

수분은 SWIR 영역에서 어둡게 나타나며, 이를 통해 정확한 수분 검출이 가능합니다.

Moisture strongly absorbs SWIR wavelengths and appears dark in SWIR images, enabling reliable detection.

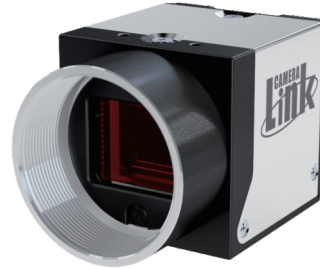


Model	HG-A130SW	HC-A130SW	HX-A130SW
Sensor	Sony InGaAs SWIR IMX990		
Sensor Size	1/2"		
Optical Filter	900nm Long Pass		
Pixel size (μm)	5 x 5		
Resolution	1296 x 1032		
Frame Rate (Max.)	72fps	134fps	134fps
Scanning Method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (X,Y,All)		
Synchronization	Internal (Freerun), External, Software trigger via PC		
Trigger modes	Fixed shutter, Pulse width shutter		
Shutter	Global		
Shutter Speed	13us ~ 1sec	7us ~ 3sec	7us ~ 3sec
Gain	Analog : 0dB ~ 6dB (x1 ~ x2, ADC 8bit), 0dB ~ 18dB (x1~x8, ADC 10/12bit) Digital : 0dB ~ 18dB (x1 ~ x8)		
Black Level	Analog : 0 ~ 255 (ADC 8bit), 1023 (ADC 10bit), 4095 (ADC 12bit) Digital : 0 ~ 4095 (12bit)		
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)		
Auto Gain / exposure	Off / Once / Continuous		
Interface	GigE Vision	CameraLink	CoaXPress-12 / Micro BNC
Pixel Data Format	Mono8/10/12, Mono10/12 Packed	Mono8/10/12	Mono8/10/12
Function Control	GainAuto, ExposureAuto, Acquisition Frame Rate(Adjustable), Line Debouncer, Defective Pixel Correction, Noise Reduction Filter(Only HG-A130SW), Shading Correction(FFC), Sharpness Enhancement, Contrast/Brightness Control, Sensor Cooling Auto		
Lens mount	C mount		
Power requirements	DC 12~24V or PoE	DC 12~24V	DC 12~24V or PoCXP
Consumption DC	< 3.8W (PoE : <3.9W)	< 3.8W	< 7.0W
Weight	< 330g	< 400g	< 400g
Dimension (mm)	55 x 55 x 74 (without mount)		
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (with < 20 ~ 80% RH) (Storage))		
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)		
Standard compliancy	CE (EN61326-1; 2006년; Class A)		
Conformity	RoHS, WEEE, UL, FCC		
Warranty	3 years		

Model	HX-A530SW
Sensor	Sony InGaAs SWIR IMX992
Sensor size	1/1.4"
Optical Filter	900nm Long Pass
Pixel size (μm)	3.45 x 3.45
Resolution	2592 x 2056
Frame Rate (Max.)	131 fps
Scanning Method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (X,Y,All)
Synchronization	Internal (Freerun), External, Software trigger via PC
Trigger modes	Fixed shutter, Pulse width shutter
Shutter	Global
Shutter speed	1us ~ 3sec
Gain	Analog : 0dB ~ 24dB (x1 ~ x16) Digital : 0dB ~ 18dB (x1 ~ x8)
Black level	Analog : 0 ~ 255 (ADC 8bit), 1023 (ADC 10bit), 4095 (ADC 12bit) Digital : 0 ~ 4095 (12bit)
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)
Auto gain / exposure	Off / Once / Continuous
Interface	CoaXPress-12 / Micro BNC
Pixel Data Format	Mono8/10/12
Function control	GainAuto, ExposureAuto, Acquisition Frame Rate(Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction(FFC), Sharpness Enhancement, Contrast/Brightness Control, Sensor Cooling Auto
Lens mount	C mount
Power requirements	DC 12V ~ 24V or PoCXP
Consumption	< 9.0W
Weight	< 400g
Dimension (mm)	55 x 55 x 74 (without mount)
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage) (with < 20~80% RH)
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)
Standard compliancy	CE (EN61326-1:2006년; Class A)
Conformity	RoHS, WEEE, UL, FCC
Warranty	3 years

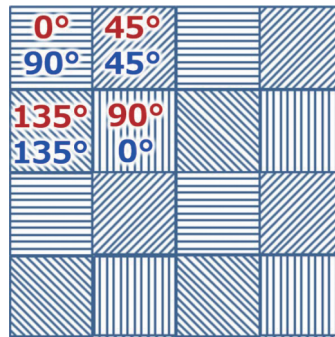
Model	HG-T130SW
Sensor	CMOS SWIR
Sensor size	2/3"
Optical Filter	900nm Long Pass
Pixel size (μm)	7 x 7
Resolution	1236 x 960
Frame Rate (Max.)	50fps
Scanning Method	Full / ROI
Synchronization	Internal (Freerun), External, Software trigger via PC
Trigger modes	Fixed shutter
Shutter	Global
Shutter speed	100us ~ 200us
Gain	Digital : 0dB ~ 18dB (x1 ~ x8)
Black level	Digital : 0 ~ 4095 (12bit)
Gamma / LUT	Adjustable LUT (12bit to 12bit)
Auto gain / exposure	Off / Once / Continuous
Interface	Ethernet 1000 Base-T (GigE Vision Standard)
Pixel Data Format	Mono8/10/12
Function control	GainAuto, ExposureAuto, Acquisition Frame Rate(Adjustable), Line Debouncer, Defective Pixel Correction, Noise Reduction Filter, Non-Uniformity Correction(NUC) Sharpness Enhancement, Contrast/Brightness Control, Sensor Cooling Auto
Lens mount	C mount
Power requirements	DC 12~24V
Consumption	< 6.0W
Weight	< 400g
Dimension (mm)	55 x 55 x 85 (without mount)
Temperature	0℃ ~ 30℃ (Operating) / -20℃ ~ 45℃ (Storage) (with < 20~80% RH)
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)
Standard compliancy	CE (EN61326-1:2006년; Class A)
Conformity	RoHS, WEEE, FCC
Warranty	3 years

Polarization Cameras



Key Features

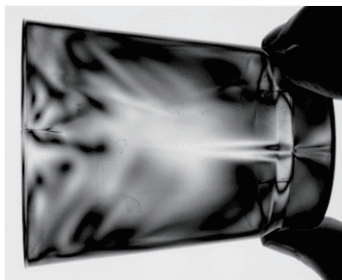
- Sony Polarized CMOS Sensor (IMX264/253MZR)
- Interface : GigE, CameraLink
- Resolution : 5MP, 12MP
- Filtering unwanted reflection or glare
- Enhancing contrast
- Stress inspection



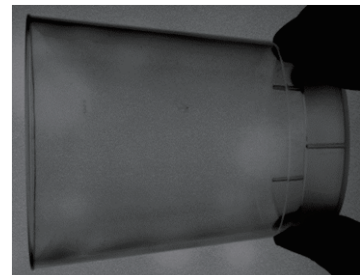
Example Images



Aop



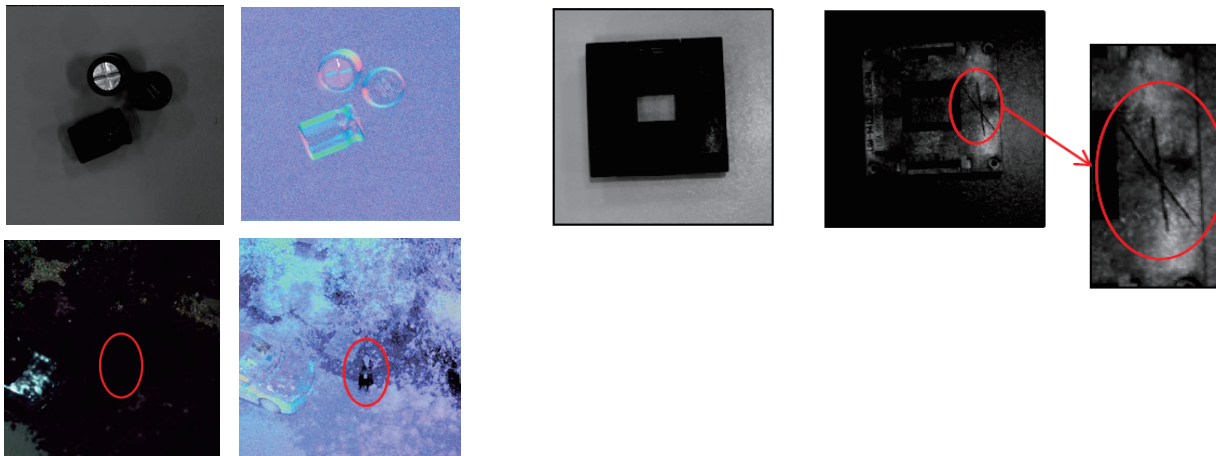
DoIP



Intensity

Applications

Improving Contrast



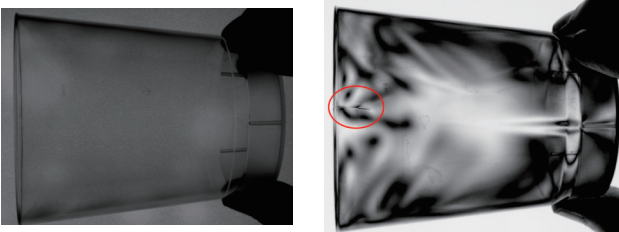
Reduce Reflection



Stress Inspection



Scratch inspection of transparent material



Polarsens

Model	MG-A500P-22	MG-A121P-9
Sensor	Sony CMOS Pregius IMX264MZR	Sony CMOS Pregius IMX253MZR
Sensor size	2/3"	1.1"
Pixel size (μm)	3.45 x 3.45	
Resolution	2464 x 2056	4112 x 3008
Frame Rate (Max.)	22fps	9fps
Color / Mono	Mono Chrome	
Scanning method	Full / ROI / Reverse (x, y, all)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12 packed	
SNR	36dB	39dB
Function control	GainAuto, ExposureAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	DC 12V ± 10% or PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.4W
	PoE	< 3.85W
		< 3.6W
		< 4.1W
Weight	< 60g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Polarsens

Model	MC-A500P-163	MC-A121P-67
Sensor	Sony CMOS Pregius IMX 250MZR	Sony CMOS Pregius IMX253MZR
Sensor size	2/3"	1.1"
Pixel size (μm)	3.45 x 3.45	
Resolution	2464 x 2056 / 10Tap : 2440 x 2056	4096 x 3000 / 10Tap : 4080 x 3000
Frame Rate (Max.)	163fps	67fps
Color / Mono	Mono Chrome	
Scanning method	Full / ROI / Reverse (x, y, all)	Full / ROI / Reverse (x, y, all)
Synchronization	Internal (Freerun), External (CC1 ~ CC4), Software trigger via PC	
Trigger modes	Timed, Trigger width	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (ADC 8bit) 0 ~ 1023 (ADC 10bit) 0 ~ 4095 (ADC1 2bit) Digital : 0 ~ 1023 (10bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Mini CameraLink™, PoCL	
Pixel data formats	Mono8/10, Bayer8/10, RGB8 Polarization, RGB8 Degree	
Data Output Format	AoP, DoLP, Intensity(S0), 0 degree, 45 degree, 90 degree, 135 degree	
SNR	44dB	
Function control	Acquisition Frame Rate (Adjustable), Noise Reduction Filter	
Lens mount	C mount	
Power requirements	DC 12V ~ 24V ± 10% or PoCL	
Consumption	DC	< 3.6W
	PoCL	
Weight	< 47g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL	
Warranty	3 years	

3CMOS Cameras



Key Features

- Sony Pregius IMX273 (x3)
- High frame rate and advanced color fidelity
- Acquisition of each pixel of RGB values
- * Accurate color values and better resolution as no interpolation process

Pin map

No.	Name	IN/OUT	Description
1	GND	IN	-
2	PWR	IN	10.8V ~ 26.4V Input Range
3	-	-	-
4	-	-	-
5	Trigger -	IN	Opto-Isolated Trigger Input-
6	Trigger +	IN	Opto-Isolated Trigger Input+(2.5V~24V)
7	GPIO_0	IN/OUT	TTL / Input : 3.3V ~ 24V / Out : 3.3V
8	GND	IN	GPIO GND
9	-	-	-
10	GPIO_1	IN/OUT	TTL / Input : 3.3V ~ 24V / Out : 3.3V
11	PWR	IN	10.8V ~ 26.4V Input Range
12	GND	IN	-

Dimension (Unit : mm)

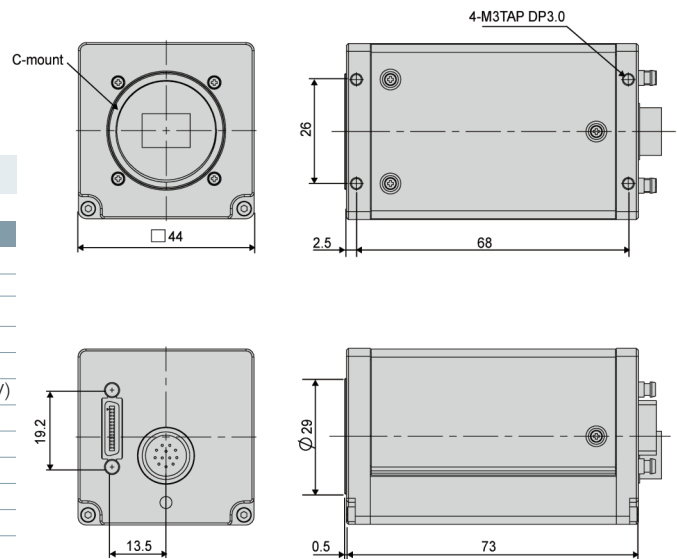
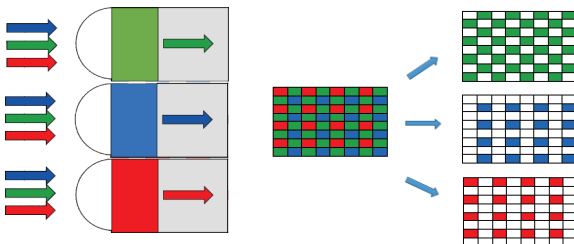
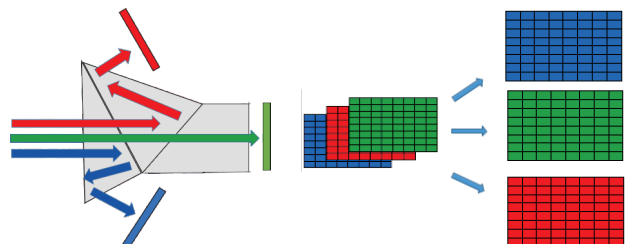


Image Acquisition Method

Single Bayer Sensor



3CMOS Sensor



Model	TC-A160K-102	
Sensor	Sony CMOS Pregius IMX273	
Sensor size	1/2.9"	
Pixel size (μm)	3.45 x 3.45	
Resolution	1456 x 1088	
Frame Rate (Max.)	102fps	
Color / Mono	Color	
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All) / Binning (Y,All)	
Synchronization	Internal (Freerun) or External (CC1 ~ CC4 / Optocoupler In x 1 / GPIO (TTL) x 2 / Software)	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 36dB (1x ~ 63.1x)	
Black level	Analog : 0 ~ 255 (ADC 8bit) 0 ~ 1023 (ADC 10bit) 0 ~ 4095 (ADC 12bit)	
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous	
Auto gain / exposure	Off / Once / Continuous	
Interface	Mini CameraLink™, PoCL	
Pixel Data Format	RGB8/RGB10/RGB12	
SNR	35dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 12V ~ 24V ± 10% or PoCL	
Consumption	DC	< 4.5W
	PoCL	
Weight	< 163g	
Dimension (mm)	44 x 44 x 73.5 (without mount, Connector)	
Temperature	-5℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE	
Warranty	3 years	

GigE Vision Cameras

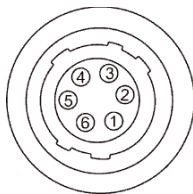

Pregius
STARVIS


Key Features

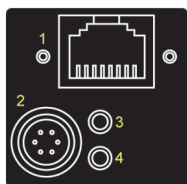
Mini-size / CMOS GigE camera
 Camera standard
 - GenICam, GigE Vision
 Trigger input range : +4.5V~24V(Photo coupler)
 Supporting PoE
 eBus Driver

Pin map

Pin No.	Name	IN/OUT	Description
1	PWR	IN	10.8V ~ 13.2V Input Range
2	Trigger	IN	Opto-Isolated input, Trigger input
3	GND	IN	Strobe GND
4	Strobe	OUT	Opto-Isolated output, Strobe output
5	GND	IN	Trigger GND
6	GND	IN	Power GND

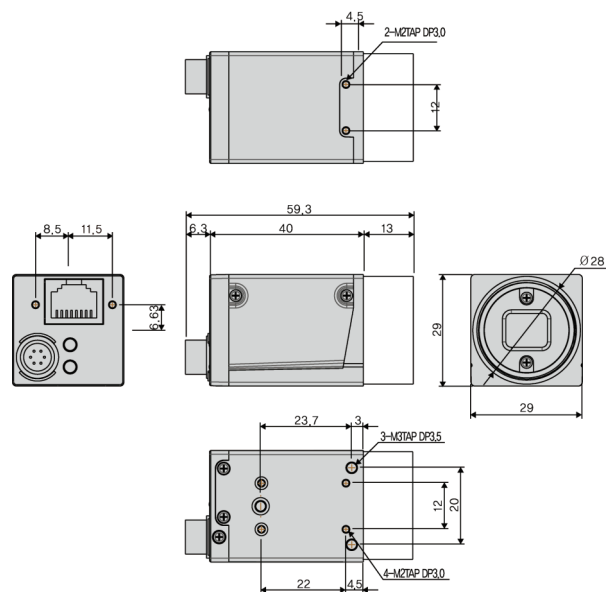


back Panel



No.	Name	Remark
1	EtherNet Connector	RJ45
2	Power & I/O Connector	6Pin Circular
3,4	LED Indicator	LED

Dimension (Unit : mm)



LED Indicator

LED1	Description	LED2 (3)	Description
OFF	Power off	OFF	Booting or Ready
RED	10/100 Link	RED	IP Assigning
Green	Gigabit Link	Green	Blink(Trigger exist) Grab enabled

Download (File name)

ex) SDK download:

CREVIS Site ▶ Search window ▶

SDK : CVS Cam.zip

Model	MG-A040M-280	MG-A040K-280
Sensor	Sony CMOS Pregius IMX287	
Sensor size	1/2.9"	
Pixel size (μm)	6.9 x 6.9	
Resolution	728 x 544	
Frame Rate (Max.)	280fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI / Reverse (X, Y, All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR	37dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto (Only Color Models), Acquisition Frame Rate (Adjustable), Line Debouncer, Color transformation Control, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.1W
	PoE	< 3.6W
Weight	< 60g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model	MG-A160M-72	MG-A160K-72
Sensor	Sony CMOS Pregius IMX273	
Sensor size	1/2.9"	
Pixel size (μm)	3.45 x 3.45	
Resolution	1456 x 1088	
Frame Rate (Max.)	72fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal+Vertical) / Binning (Horizontal + Vertical) (Mono Model Only)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto (Only Color Models), Acquisition Frame Rate (Adjustable), Line Debouncer, Color transformation Control, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.1W
	PoE	< 3.6W
Weight	< 60g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model		MG-A320M-35	MG-A320K-35
Sensor		Sony CMOS Pregius IMX265	
Sensor size		1/1.8"	
Pixel size (μm)		3.45 x 3.45	
Resolution		2064 x 1544	
Frame Rate (Max.)		35fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level		Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format		Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR		38dB	
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto (Only Color Models), Acquisition Frame Rate (Adjustable), Line Debouncer, Color transformation Control, Noise Reduction Filter	
Lens mount		C mount	
Power requirements		12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3W	
	PoE	< 3.5W	
Weight		< 60g	
Dimension (mm)		29 x 29 x 40 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model		MG-A500M-22	MG-A500K-22
Sensor		Sony CMOS Pregius IMX 264	
Sensor size		2/3"	
Pixel size (μm)		3.45 x 3.45	
Resolution		2464 x 2056	
Frame Rate (Max.)		22fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level		Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format		Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR		36dB	
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto (Only Color Models), Acquisition Frame Rate (Adjustable), Line Debouncer, Color transformation Control, Noise Reduction Filter	
Lens mount		C mount	
Power requirements		12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3W	
	PoE	< 3.5W	
Weight		< 60g	
Dimension (mm)		29 x 29 x 40 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model		MG-A121M-9	MG-A121K-9
Sensor		Sony CMOS Pregius IMX 304	
Sensor size		1.1"	
Pixel size (μm)		3.45 x 3.45	
Resolution		4112 x 3008	
Frame Rate (Max.)		9fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 32dB (1x ~ 39.8x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level		Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format		Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR		42dB	36dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto (Only Color Models), Acquisition Frame Rate (Adjustable), Line Debouncer, Color transformation Control, Noise Reduction Filter	
Lens mount		C mount	
Power requirements		12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.2W	
	PoE	< 3.7W	
Weight		< 60g	
Dimension (mm)		29 x 29 x 40 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MG-A600R-17	MG-A600L-17
Sensor	Sony CMOS Starvis IMX178	
Sensor size	1/1.8"	
Pixel size (μm)	2.4 x 2.4	
Resolution	3088 x 2072	
Frame Rate (Max.)	17fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Binning	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Rolling	
Shutter speed	243.5us ~ 3sec	
Gain	Analog : 0dB ~ 27dB (1x ~ 22.5x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level	Analog : 0 ~ 255 (8bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction (0 ~ 3.999)	
Auto white balance	Off / Once / Continuous	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12Packed, Bayer8/10/12, Bayer10/12Packed, YUV422Packed
SNR	40dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Gamma Control, Line Debouncer, Color Transformation Control, Noise Reduction Filter, Pattern Noise Removal	
Lens mount	C mount	
Power requirements	12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3W
	PoE	< 3.5W
Weight	< 60g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model		MG-A121R-9	MG-A121L-9
Sensor		Sony CMOS Starvis IMX226	
Sensor size		1/1.7"	
Pixel size (μm)		1.85 x 1.85	
Resolution		4024 x 3036	
Frame Rate (Max.)		9fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X, Y, All)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Rolling, Global Reset	
Shutter speed		313.5μs ~ 3sec	
Gain		Analog : 0dB ~ 27dB (1x ~ 22.5x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level		Analog : 0 ~ 255 (8bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format		Mono8/10/12, Mono10/12 Packed	Mono8/10/12, Mono10/12 Packed, Bayer8/10/12, Bayer10/12 Packed, YUV422 Packed
SNR		40dB	
Function control		GainAuto, ExposureAuto, Acquisition Frame Rate (Adjustable), Color Transformation Control, Balance White Auto (Only Color Models)	
Lens mount		C mount	
Power requirements		12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3W	
	PoE	< 3.5W	
Weight		< 60g	
Dimension (mm)		29 x 29 x 40 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MG-A201R-5	MG-A201L-5
Sensor	Sony CMOS Starvis IMX 183	
Sensor size	1"	
Pixel size (μm)	2.4 x 2.4	
Resolution	5496 x 3672	
Frame Rate (Max.)	5fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI / Reverse (X, Y, All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Rolling, Global Reset	
Shutter speed	430 μs ~ 3 sec	
Gain	Analog : 0dB ~ 27dB (1x ~ 22.5x) Digital : 0dB ~ 24dB (1x ~ 16x)	
Black level	Analog : 0 ~ 255 (8bit) Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10, Mono10 Packed	Mono8/10, Mono10 Packed, Bayer8/10 Bayer10 Packed, YUV422 Packed
SNR	39dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto Acquisition Frame Rate (Adjustable), Line Debouncer Color Transformation Control, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.2W
	PoE	< 3.7W
Weight	< 60g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model		MG-A500M-FL	MG-A500K-FL
Sensor		Sony CMOS Pregius S IMX547	
Sensor size		1/1.8"	
Pixel size (μm)		2.74 x 2.74	
Resolution		2472 x 2064	
Frame Rate (Max.)		22fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (Horizontal + Vertical) (Mono Model Only)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter Speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 24 dB (1x ~ 15.8x) Digital : 0dB ~ 24 dB (1x ~ 16x)	
Black level		Analog : 0 ~ 4095 (12bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Color Model Only)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format		Mono8/10/12, Mono10/12Packed	Mono8/10/12, Mono10/12Packed, BayerRG8/10/12, BayerRG10/12Packed,YUV422Packed
SNR		38dB	39dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto(Only Color Models) Acquisition Frame Rate(Adjustable), Line Debouncer Color Transformation Control, Noise Reduction Filter	
Lens mount		C mount	
Power requirements		12VDC ± 10%, PoE (Power over Ethernet 802.3af compliant)	
Consumption	DC	< 3.1W	
	PoE	< 3.6W	
Weight		< 65g	
Dimension (mm)		29 x 29 x 40 (without mount)	
Temperature		0℃ ~ 50℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MG-A121M-FL		MG-A121K-FL
Sensor	Sony CMOS Pregius S IMX545		
Sensor size	1/1.1"		
Pixel size (μm)	2.74 x 2.74		
Resolution	4128 x 3008		
Frame Rate (Max.)	9fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (Horizontal + Vertical) (Mono Model Only)		
Synchronization	Internal (Freerun), External, Software trigger via PC		
Trigger modes	Fixed shutter, Pulse width shutter		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)		
Gain	Analog : 0dB ~ 24 dB (1x ~ 15.8x) Digital : 0dB ~ 24 dB (1x ~ 16x)		
Black level	Analog : 0 ~ 4095 (12bit) / Digital : 0 ~ 4095 (12bit)		
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)		
Auto white balance	Off / Once / Continuous (Color Model Only)		
Auto gain / exposure	Off / Once / Continuous		
Interface	Ethernet 1000 Base-T (GigE Vision Standard)		
Pixel Data Format	Mono8/10/12, Mono10/12Packed	Mono8/10/12, Mono10/12Packed, BayerRG8/10/12, BayerRG10/12Packed,YUV422Packed	
SNR	39dB	40dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto(Only Color Models) Acquisition Frame Rate(Adjustable), Line Debouncer Color Transformation Control, Noise Reduction Filter		
Lens mount	C mount		
Power requirements	12VDC ± 10% or PoE		
Consumption	DC	< 3.3W	
	PoE	< 3.8W	
Weight	< 65g		
Dimension (mm)	29 x 29 x 40 (without mount)		
Temperature	0℃ ~ 50℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL, FCC		
Warranty	3 years		

Model	MG-A161M-FL	MG-A161K-FL
Sensor	Sony CMOS Pregius S IMX542	
Sensor size	1.1"	
Pixel size (μm)	2.74 x 2.74	
Resolution	5328 x 3040	
Frame Rate (Max.)	7fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (Horizontal + Vertical) (Mono Model Only)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter Speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 24 dB (1x ~ 15.8x) Digital : 0dB ~ 24 dB (1x ~ 16x)	
Black level	Analog : 0 ~ 4095 (12bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Color Model Only)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12Packed	Mono8/10/12, Mono10/12Packed, BayerRG8/10/12, BayerRG10/12Packed,YUV422Packed
SNR	38dB	38dB
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto(Only Color Models) Acquisition Frame Rate(Adjustable), Line Debouncer Color Transformation Control, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	12VDC ± 10%, PoE	
Consumption	DC	< 3.6W
	PoE	< 4.2W
Weight	< 65g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 50℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model	MG-A241M-FL	MG-A241K-FL
Sensor	Sony CMOS Pregius S IMX540	
Sensor size	1.2"	
Pixel size (μm)	2.74 x 2.74	
Resolution	5328 x 4608	
Frame Rate (Max.)	4fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning (Horizontal + Vertical) (Mono Model Only)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 24 dB (1x ~ 15.8x) Digital : 0dB ~ 24 dB (1x ~ 16x)	
Black level	Analog : 0 ~ 4095 (12bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Color Model Only)	
Auto gain / exposure	Off / Once / Continuous	
Interface	Ethernet 1000 Base-T (GigE Vision Standard)	
Pixel Data Format	Mono8/10/12, Mono10/12Packed	Mono8/10/12, Mono10/12Packed, BayerRG8/10/12, BayerRG10/12Packed,YUV422Packed
SNR	38dB	39dB
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto(Only Color Models) Acquisition Frame Rate(Adjustable), Line Debouncer Color Transformation Control, Noise Reduction Filter	
Lens mount	C mount	
Power requirements	12VDC ± 10% or PoE	
Consumption	DC	< 3.8W
	PoE	< 4.3W
Weight	< 65g	
Dimension (mm)	29 x 29 x 40 (without mount)	
Temperature	0℃ ~ 50℃ (Operating) / -10℃ ~ 50℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2006년; Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Cameralink Cameras (Base)



Pregius

STARVIS

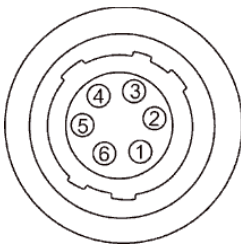


Key Features

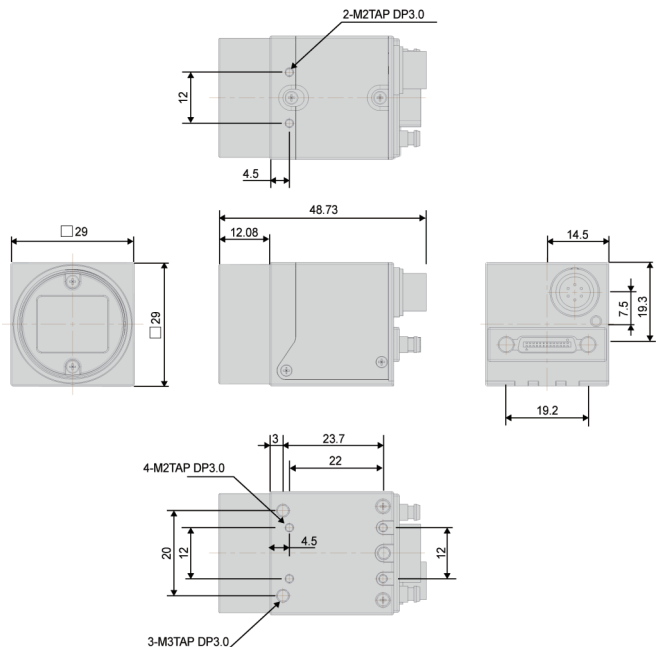
Mini-size CMOS CameraLink camera
Standard cameralink interface
Trigger input range : +4.5V ~ +24V
Supporting PoCL

Pin map

Pin No.	Name	IN/OUT	Description
1	PWR	IN	10.8V~26.4V Input Range
2	GPIO1	IN/OUT	TTL Input / Output
3	GPIO2	IN/OUT	TTL Input / Output
4	IO_GND	IN	IO_GND
5	NC	-	-
6	GND	IN	Power GND



Dimension (Unit : mm)



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CL-Installation Guide : [cameralink_manual.zip](#)

Camfile : [cameralink_camfile.zip](#)

CamguideCL : [camguideCL.zip](#)

Model	MC-A040M-523		MC-A040K-523
Sensor	Sony CMOS Pregius IMX 287		
Sensor size	1/2.9"		
Pixel size (μm)	6.9 x 6.9		
Resolution	720 x 540		
Frame Rate (Max.)	523fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Reverse (x, y, all)		
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC		
Trigger modes	Timed, Trigger width		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)		
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)		
Black level	Analog : 0 ~ 255 (ADC 8bit) 0 ~ 1023 (ADC 10bit) 0 ~ 4095 (ADC 12bit) Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	Mini CameraLink™, PoCL		
Pixel data formats	Mono8/10	Mono8/10, Bayer8/10, RGB8	
SNR	37dB	40 dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCL		
Consumption	DC	< 2.1W	
	PoCL		
Weight	< 44g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년); Class A)		
Conformity	RoHS, WEEE, UL		
Warranty	3 years		

Model	MC-A160M-154		MC-A160K-154
Sensor	Sony CMOS Pregius IMX 273		
Sensor size	1/2.9"		
Pixel size (μm)	3.45 x 3.45		
Resolution	1440 x 1080		
Frame Rate (Max.)	154fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Reverse (x, y, all) / Decimation (Horizontal + Vertical) / Binning (Only Mono models)		
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC		
Trigger modes	Timed, Trigger width		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)		
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)		
Black level	Analog : 0 ~ 255 (ADC 8bit) 0 ~ 1023 (ADC 10bit) 0 ~ 4095 (ADC 12bit) Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	Mini CameraLink™, PoCL		
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10, RGB8	
SNR	31dB	35dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCL		
Consumption	DC	< 2.1W	
	PoCL		
Weight	< 44g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL		
Warranty	3 years		

Model	MC-A320M-55		MC-A320K-55	
Image sensor	Sony CMOS Pregius IMX 265			
Sensor size	1/1.8"			
Pixel size (μm)	3.45 x 3.45			
Resolution	2048 x 1536 / 3Tap : 2040 x 1536			
Frame Rate (Max.)	55fps			
Color / Mono	Mono Chrome	Color		
Scanning method	Full / ROI / Reverse (x, y, all) / Decimation (Horizontal + Vertical)			
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC			
Trigger modes	Timed, Trigger width			
Shutter	Global			
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)			
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)			
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 1023 (10bit)			
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)			
Auto white balance	Off / Once / Continuous (Only Color Models)			
Auto gain / exposure	Off / Once / Continuous			
Interface	Mini CameraLink™, PoCL			
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10, RGB8		
SNR	36dB	40dB		
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter			
Lens mount	C mount			
Power requirements	DC 12V ~ 24V ± 10% or PoCL			
Consumption	DC	< 2.1W		
	PoCL			
Weight	< 44g			
Dimension (mm)	29 x 29 x 29 (without mount)			
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)			
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)			
Standard compliancy	CE (EN61326-1;2006년; Class A)			
Conformity	RoHS, WEEE, UL			
Warranty	3 years			

Model	MC-A500M-35		MC-A500K-35
Sensor	Sony CMOS Pregius IMX 264		
Sensor size	2/3"		
Pixel size (μm)	3.45 x 3.45		
Resolution	2448 x 2048		
Frame Rate (Max.)	35fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Reverse (x, y, all) / Decimation (Horizontal + Vertical)		
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC		
Trigger modes	Timed, Trigger width		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)		
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)		
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	Mini CameraLink™, PoCL		
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10, RGB8	
SNR	37dB	41dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCL		
Consumption	DC	< 2.1W	
	PoCL		
Weight	< 44g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL		
Warranty	3 years		

Model	MC-A121M-20		MC-A121K-20	
Image sensor	Sony CMOS Pregius IMX 304			
Sensor size	1.1"			
Pixel size (μm)	3.45 x 3.45			
Resolution	4096 x 3000 / 3Tap : 4080 x 3000			
Frame Rate (Max.)	20fps			
Color / Mono	Mono Chrome	Color		
Scanning method	Full / ROI / Reverse (x, y, all) / Decimation (Horizontal + Vertical)			
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC			
Trigger modes	Timed, Trigger width			
Shutter	Global			
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)			
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)			
Black level	Analog : 0 ~ 4095 (12bit) Digital : 0 ~ 1023 (10bit)			
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)			
Auto white balance	Off / Once / Continuous (Only Color Models)			
Auto gain / exposure	Off / Once / Continuous			
Interface	Mini CameraLink™, PoCL			
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10, RGB8		
SNR	39dB	40dB		
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter			
Lens mount	C mount			
Power requirements	DC 12V ~ 24V ± 10% or PoCL			
Consumption	DC	< 2.3W		
	PoCL			
Weight	< 44g			
Dimension (mm)	29 x 29 x 29 (without mount)			
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)			
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)			
Standard compliancy	CE (EN61326-1:2006년; Class A)			
Conformity	RoHS, WEEE, UL			
Warranty	3 years			

Model	MC-A121R-20		MC-A121L-20
Image sensor	Sony CMOS Starvis IMX 226		
Sensor size	1/1.7"		
Pixel size (μm)	1.85 x 1.85		
Resolution	4016 x 3036 / 3Tap : 4008 x 3036		
Frame Rate (Max.)	20fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Reverse (x, y, all)		
Synchronization	Internal (Freerun), External (CC1 or Circular), Software trigger via PC		
Trigger modes	Timed, Trigger width		
Shutter	Rolling, Global Reset		
Shutter speed	213.13us ~ 3sec		
Gain	Analog : 0dB ~ 28dB Digital : 0dB ~ 18dB		
Black level	Analog : 0 ~ 255 (10bit) Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	Mini CameraLink™, PoCL		
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10, RGB8	
SNR	38dB	41dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCL		
Consumption	DC	< 1.9W	
	PoCL		
Weight	< 44g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s² (10G) / 196m/s² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL		
Warranty	3 years		

Cameralink Cameras (Full)



Pregius

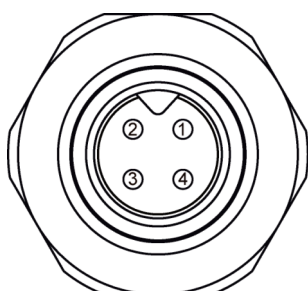


Key Features

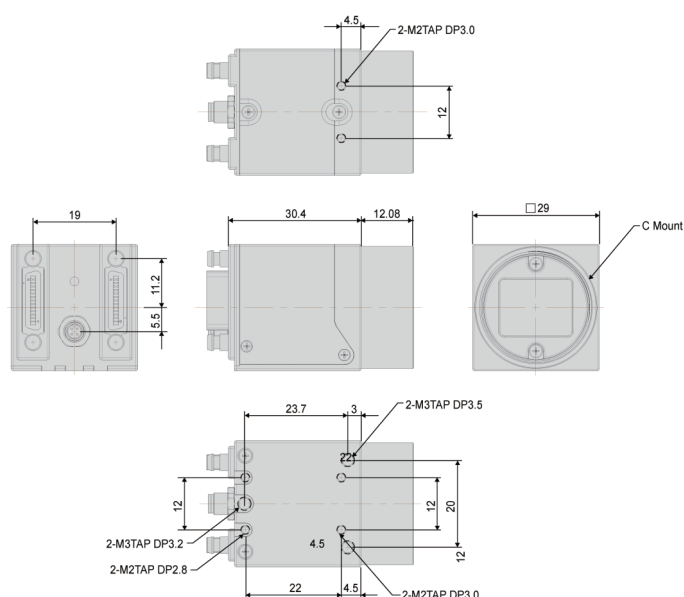
Mini-size CMOS CameraLink camera
Standard cameralink interface
Supporting PoCL

Pin map

Pin No.	Name	IN/OUT	Description
1	PWR	IN	10.8V~26.4V Input Range
2	GPIO1	IN/OUT	TTL Input / Output
3	GPIO2	IN/OUT	TTL Input / Output
4	GND	IN	Power GND



Dimension (Unit : mm)



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CL-Installation Guide : [cameralink_manual.zip](#)

Camfile : [cameralink_camfile.zip](#)

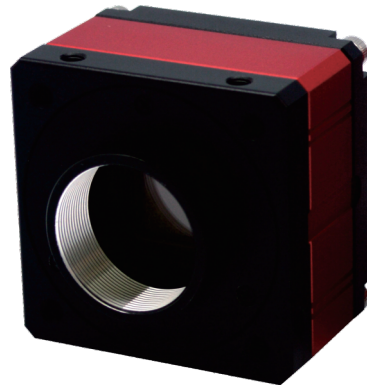
CamguideCL : [camguideCL.zip](#)

Model		MC-A500M-163	MC-A500K-163
Image sensor		Sony CMOS Pregius IMX 250	
Sensor size		2/3"	
Pixel size (μm)		3.45 x 3.45	
Resolution		2464 x 2056 / 10Tap : 2440 x 2056	
Frame Rate (Max.)		163fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (x, y, all) / Decimation (Horizontal + Vertical) / Binning (Vertical) Binning (Only Mono models)	
Synchronization		Internal (Freerun), External (CC1 ~ CC4), Software trigger via PC	
Trigger modes		Timed, Trigger width	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Mini CameraLink™, PoCL	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		39dB	40dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCL	
Consumption	DC	< 2.2W	
	PoCL		
Weight		< 47g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)- (with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1; 2006년), Class A	
Conformity		RoHS, WEEE, UL	
Warranty		3 years	

Model		MC-A121M-67	MC-A121K-67
Image sensor		Sony CMOS Pregius IMX 253	
Sensor size		1.1"	
Pixel size (μm)		3.45 x 3.45	
Resolution		4096 x 3000 / 10Tap : 4080 x 3000	
Frame Rate (Max.)		67fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X,Y,All) / Decimation (Horizontal + Vertical) / Binning Vertical, Binning Horizontal Vertical (Only Mono Models)	
Synchronization		Internal (Freerun), External (CC1 ~ CC4), Software trigger via PC	
Trigger modes		Timed, Trigger width	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		Mini CameraLink™, PoCL	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		38dB	42dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCL	
Consumption	DC	< 2.6W	
	PoCL		
Weight		< 47g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL	
Warranty		3 years	

Cameralink Cameras

25Mega Pixel



Key Features

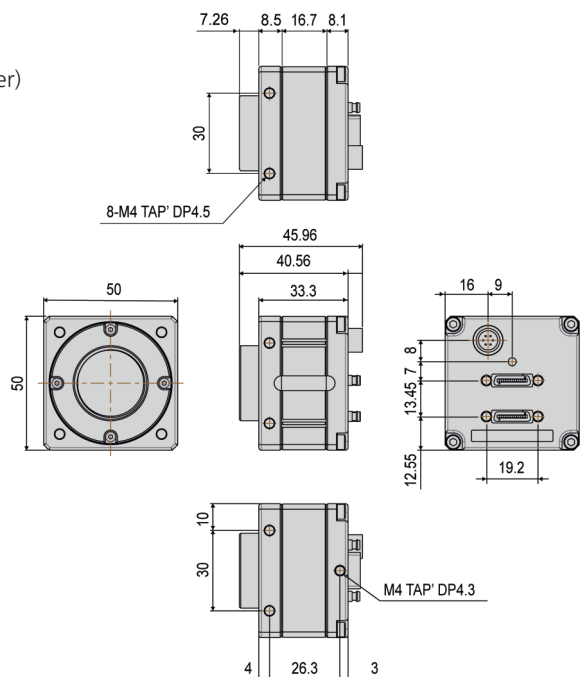
High resolution CMOS Cameralink Camera
 Higher frame rates with AOI
 Standard cameralink interface
 Trigger input range : +2.7V~3.3V(TTL), +3.3V~24V(Photo coupler)

Pin map

6pin Connector

Pin No.	Name	IN/OUT	Description
1	PWR	IN	10.8V~26.4V Input Range
2	GPIO1	IN/OUT	Line5
3	GPIO2	IN/OUT	Line6
4	GND	IN	I/O GND
5	NC	-	-
6	GND	IN	Power GND

Dimension (Unit : mm)



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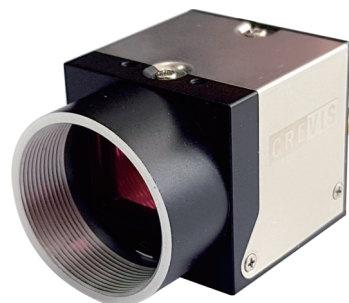
CL-Installation Guide : [cameralink_manual.zip](#)

Camfile : [cameralink_camfile.zip](#)

CamguideCL : [camguideCL.zip](#)

Model	HC-F251M-31	HC-F251K-31
Sensor	GMAX0505 25M	
Sensor size	1.1"	
Pixel size (μm)	2.5 x 2.5	
Resolution	5120 x 5120	
CameraLink Pixel Freq.	2, 3, 4, 8, 10Tap : 85MHz	
Frame Rate (Max.)	31.7fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / Single ROI / Multi ROI / Reverse (X,Y,All) / Decimation Vertical	
Synchronization	Internal (Freerun), External (CC1 ~ CC4 or Circular), Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global Shutter	
Shutter speed	1us ~ 3sec (ExposureOffset : 별도)	
Gain	Digital : 0dB ~ 12dB (1x ~ 4x)	
Black level	Analog : 0 ~ 2047 / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT	Gamma Correction (0 ~ 3.999) / Adjustable LUT (10bit to 10bit)	
Interface	CameraLink x 2 (PoCL support)	
Pixel data formats	Mono8	Bayer8
SNR	37dB	
Function control	GainAuto, ExposureAuto, Acquisition Frame Rate (Adjustable), DefectPixelCorrection, Shading Correction (FFC, Under 8tap)	
Lens mount	C mount	
Power requirements	DC (12V ~ 24V ± 10%) or PoCL	
Consumption	< 6.0W	
Weight	142g	
Dimension (mm)	50 x 50 x 33.3 (Without Mount, Connector)	
Temperature	0℃ ~ + 40℃ / -5℃ ~ + 45℃ (with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1; 2013; Class A)	
Conformity	RoHS, WEEE, UL	
Warranty	3 years	

CoaXPress Cameras

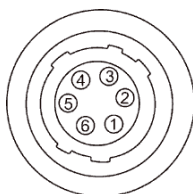

Pregius
STARVIS


Key Features

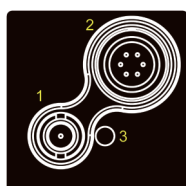
Mini-size CMOS CoaXpress camera
 Camera standard
 - GenICam, CoaXpress
 Trigger input range : +4.5V~24V(Photo coupler)
 Supporting PoCXP

Pin map

Pin No.	Name	IN/OUT	Description
1	PWR	IN	10.8V~26.4V Input Range
2	Trigger	IN	Opto-Isolated Input, Trigger input
3	GND	OUT	Strobe GND
4	Strobe	OUT	Opto-Isolated output, Strobe output
5	GND	IN	Trigger GND
6	GND	IN	Power GND

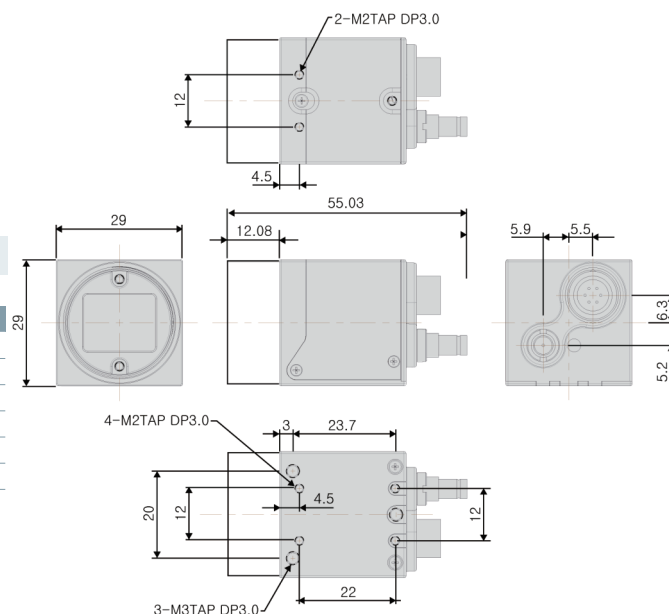


back Pannel



No.	Name	Remark
1	CoaXpress Connector	DIN
2	Power & I/O Connector	6Pin Circular
3	LED Indicator	LED

Dimension (Unit : mm)



LED Indicator

State	Indication
No power	Off
System booting	Solid orange
Powered, but nothing connected	Slow pulse red
no data being transferred	Solid green
Waiting for event	Slow pulse orange
Data being transferred	Fast flash green

Model	MX-A040M-523		MX-A040K-523
Sensor	Sony CMOS Pregius IMX287		
Sensor size	1/2.9"		
Pixel size (μm)	6.9 x 6.9		
Resolution	720 x 540		
Frame Rate (Max.)	523fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All)		
Synchronization	Internal (Freerun), External (CXP or Circular), Software trigger via PC		
Trigger modes	Fixed shutter, Pulse width shutter		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset 별도)		
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)		
Black level	Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	CoaXpress		
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10	
SNR	33dB	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction(FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCXP		
Consumption	DC	< 2.5W	
	PoCXP		
Weight	< 49g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL, FCC		
Warranty	3 years		

Model		MX-A160M-276	MX-A160K-276
Sensor		Sony CMOS Pregius IMX273	
Sensor size		1/2.9"	
Pixel size (μm)		3.45 x 3.45	
Resolution		1440 x 1080	
Frame Rate (Max.)		276fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All) / Binning (Only mono models)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		34dB	35dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 2.6W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MX-A320M-184		MX-A320K-184
Sensor	Sony CMOS Pregius IMX252		
Sensor size	1/1.8"		
Pixel size (μm)	3.45 x 3.45		
Resolution	2064 x 1544		
Frame Rate (Max.)	184fps		
Color / Mono	Mono Chrome	Color	
Scanning method	Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All) / Binning (Only mono models) / Binning (Vertical)		
Synchronization	Internal (Freerun), External (CXP or Circular), Software trigger via PC		
Trigger modes	Fixed shutter, Pulse width shutter		
Shutter	Global		
Shutter speed	1us ~ 3sec (Exposure Offset 별도)		
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)		
Black level	Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)		
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)		
Auto white balance	Off / Once / Continuous (Only Color Models)		
Auto gain / exposure	Off / Once / Continuous		
Interface	CoaXpress		
Pixel Data Format	Mono8/10	Mono8/10, Bayer8/10	
SNR	38dB	40dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter		
Lens mount	C mount		
Power requirements	DC 12V ~ 24V ± 10% or PoCXP		
Consumption	DC	< 3.1W	
	PoCXP		
Weight	< 49g		
Dimension (mm)	29 x 29 x 29 (without mount)		
Temperature	0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)		
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)		
Standard compliancy	CE (EN61326-1:2006년; Class A)		
Conformity	RoHS, WEEE, UL, FCC		
Warranty	3 years		

Model		MX-A500M-116	MX-A500K-116
Sensor		Sony CMOS Pregius IMX250	
Sensor size		2/3"	
Pixel size (μm)		3.45 x 3.45	
Resolution		2464 x 2056	
Frame Rate (Max.)		116fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All) / Binning (Only mono models) / Binning (Vertical)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		38dB	40dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 3.1W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MX-A890M-66		MX-A890K-66	
Sensor	Sony CMOS Pregius IMX255			
Sensor size	1"			
Pixel size (μm)	3.45 x 3.45			
Resolution	4096 x 2176			
Frame Rate (Max.)	66fps			
Color / Mono	Mono Chrome		Color	
Scanning method	Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All) / Binning (Only mono models)			
Synchronization	Internal (Freerun), External (CXP or Circular), Software trigger via PC			
Trigger modes	Fixed shutter, Pulse width shutter			
Shutter	Global			
Shutter speed	1us ~ 3sec (Exposure Offset 별도)			
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)			
Black level	Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)			
Gamma / LUT	Gamma Correction, Adjustable LUT (10bit to 10bit)			
Auto white balance	Off / Once / Continuous (Only Color Models)			
Auto gain / exposure	Off / Once / Continuous			
Interface	CoaXpress			
Pixel Data Format	Mono8/10		Mono8/10, Bayer8/10	
SNR	38dB		41dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter			
Lens mount	C mount			
Power requirements	DC 12V ~ 24V ± 10% or PoCXP			
Consumption	DC	< 3.5W		
	PoCXP			
Weight	< 49g			
Dimension (mm)	29 x 29 x 29 (without mount)			
Temperature	0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)			
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)			
Standard compliancy	CE (EN61326-1:2006년; Class A)			
Conformity	RoHS, WEEE, UL			
Warranty	3 years			

Model		MX-A121M-23	MX-A121K-23
Sensor		Sony CMOS Pregius IMX304	
Sensor size		1.1"	
Pixel size (μm)		3.45 x 3.45	
Resolution		4096 x 3000	
Frame Rate (Max.)		23fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		38dB	41dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 2.6W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model		MX-A121M-48	MX-A121K-48
Sensor		Sony CMOS Pregius IMX253	
Sensor size		1.1"	
Pixel size (μm)		3.45 x 3.45	
Resolution		4096 x 3000	
Frame Rate (Max.)		48fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Decimation (Horizontal + Vertical) / Reverse (X, Y, All) / Binning (Only mono models)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset 별도)	
Gain		Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		38dB	40dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 3.5W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model		MX-A121R-43	MX-A121L-43
Sensor		Sony CMOS Starvis IMX226	
Sensor size		1/1.7"	
Pixel size (μm)		1.85 x 1.85	
Resolution		4016 x 3036	
Frame Rate (Max.)		43fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X, Y, All)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Rolling / Global Reset	
Shutter speed		450.00us ~ 3sec	
Gain		Analog : 0dB ~ 27dB (1x ~ 22.5x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		39dB	44dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 2.6W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model		MX-A201R-26	MX-A201L-26
Sensor		Sony CMOS Starvis IMX183	
Sensor size		1"	
Pixel size (μm)		2.4 x 2.4	
Resolution		5488 x 3672	
Frame Rate (Max.)		26fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI / Reverse (X, Y, All)	
Synchronization		Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Rolling / Global Reset	
Shutter speed		806.00us ~ 3sec	
Gain		Analog : 0dB ~ 27dB (1x ~ 22.5x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 1023 (10bit) / Digital : 0 ~ 1023 (10bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (10bit to 10bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		CoaXpress	
Pixel Data Format		Mono8/10	Mono8/10, Bayer8/10
SNR		38dB	41dB
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Shading Correction (FFC), Noise Reduction Filter	
Lens mount		C mount	
Power requirements		DC 12V ~ 24V ± 10% or PoCXP	
Consumption	DC	< 2.9W	
	PoCXP		
Weight		< 49g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -5℃ ~ 45℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2006년; Class A)	
Conformity		RoHS, WEEE UL, FCC	
Warranty		3 years	

CoaXPress 2.0 Cameras (2Ch)

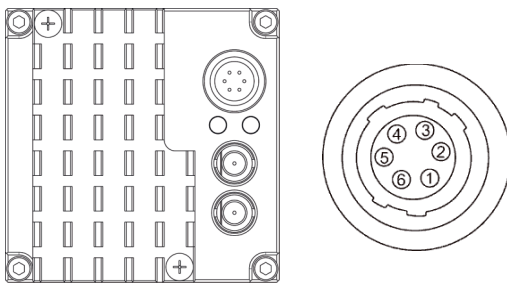


Key Features

High resolution CMOS CoaXPress2.0 Camera
 Supporting FFC
 Supporting PoCXP
 12.5Gbps x 2ch
 Max Cable Length : 30meter @ CXP12

Back Pannel

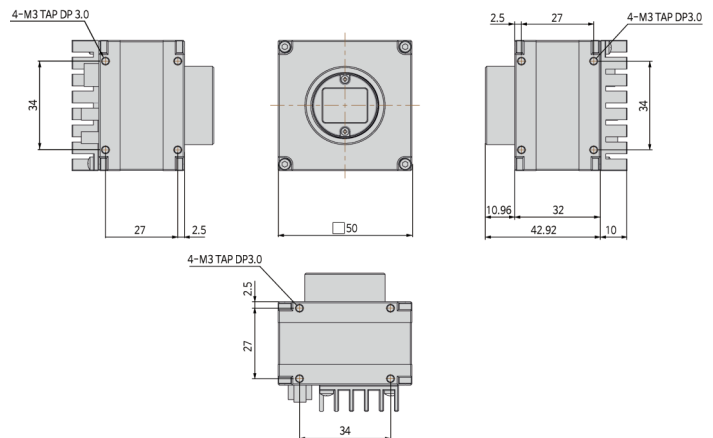
Pin No.	Name	Description
1	CoaXPress Connector 1	MicroBNC Type
2	CoaxPress Connector 2	MicroBNC Type
3	LED Indicator 1	LED
4	LED Indicator 2	LED
5	I/O Connector	6 Pin Circular Connector



6 pin Circular Connector

Pin No.	Name	IN/OUT	Description
1	GPIO	IN/OUT	Line5, Direct I/O
2	GPI_ISO+	IN	Opto-Isolated input, Trigger input
3	GPO_ISO+	OUT	Opto-Isolated output, Strobe output
4	GPI_ISO-	IN	Trigger GND
5	GPO_ISO-	OUT	Strobe GND
6	GPIO GND	IN/OUT	

Dimension (Unit : mm)



LED Indicator

State	Indication
No power	Off
System booting	Solid orange
Powered, but nothing connected	Slow pulse red
Connection detection in progress	Fast flash orange
Device - Host connected, but no data being transferred	Solid green
Device - Host connected, waiting for event (e.g. trigger)	Slow flash orange
Device - Host connected, data being transferred	Fast flash green

Model	HX-A241M-94
Sensor	CSony CMOS Pregius S IMX530
Sensor size	1.2"
Pixel size (μm)	2.74 x 2.74
Resolution	5328 x 4608
Frame Rate (Max.)	94fps
Color / Mono	Mono Crome
Scanning method	Full / ROI / Reverse(X,Y,All) / Decimation (Horizontal + Vertical)
Synchronization	Internal (Freerun), External (CXP or 6Pn Circular), Software trigger via PC
Trigger modes	Fixed shutter, Pulse width shutter
Shutter	Global
Shutter Speed	1us ~ 3sec (Exposure Offset : 별도)
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) Digital : 0dB ~ 18dB (1x ~ 8x)
Black level	Analog : 0 ~ 255 (ADC 8bit), 1023 (ADC 10bit), 4095 (ADC 12bit) Digital : 0 ~ 4095 (12bit)
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (10bit to 10bit)
Auto White Balance	Off / Once / Continuous (Color Model Only)
Auto gain / exposure	Off / Once / Continuous
Interface	CoaXPress-12@2ch / Micro BNC
Pixel Data Format	Mono8/10/12
Function control	Gain/Exposure Auto, Acquisition Frame Rate(Adjustable), Line Debouncer, Defect Pixel Correction, Shading Correction(FFC), Noise Reduction
Lens mount	C mount
Power requirements	PoCXP
Dimension (mm)	50 x 50 x 34 (Without mount, Connector)
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (with < 20 ~ 80% RH) (Storage)
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)
Standard compliancy	CE (EN61326-1:2006년; Class A)
Conformity	RoHS, WEEE, FCC
Warranty	3 years

Model	HX-F251M-75
Sensor	Gpixel GMAX0505
Sensor size	1.1"
Pixel size (μm)	2.5 x 2.5
Resolution	5120 x 5120
Frame Rate (Max.)	75fps
Color / Mono	Mono Crome
Scanning method	Full / ROI / Reverse(X,Y,All) / Decimation (Vertical)
Synchronization	Internal (Freerun), External (CXP or 6Pn Circular), Software trigger via PC
Trigger modes	Fixed shutter, Pulse width shutter
Shutter	Global
Shutter Speed	1us ~ 3sec (Exposure Offset : 별도)
Gain	Digital : x1 ~ x4
Black level	Digital : 0 ~ 1023 (10bit)
Gamma / LUT	Gamma Correction (0 ~ 3.999), Adjustable LUT (10bit to 10bit)
Auto White Balance	Off / Once / Continuous (Color Model Only)
Auto gain / exposure	Off / Once / Continuous
Interface	CoaXPress-12@2ch / Micro BNC
Pixel Data Format	Mono8/10
Function control	Gain/Exposure Auto, Acquisition Frame Rate(Adjustable), Line Debouncer, Defect Pixel Correction, Shading Correction(FFC), Noise Reduction
Lens mount	C mount
Power requirements	PoCXP
Dimension (mm)	50 x 50 x 34 (Without mount, Connector)
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (with < 20 ~ 80% RH) (Storage)
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)
Standard compliancy	CE (EN61326-1:2006년; Class A)
Conformity	RoHS, WEEE, FCC
Warranty	3 years

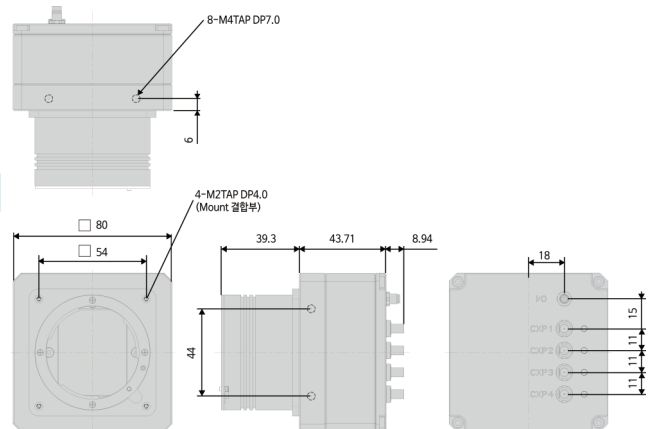
CoaXPress 2.0 Cameras (4Ch)



Key Features

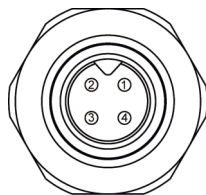
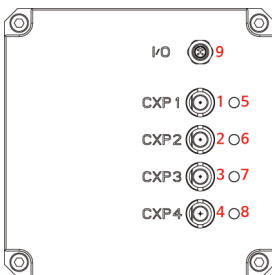
High resolution CMOS CoaXPress2.0 Camera (25/67M)
 Supporting FFC
 Supporting PoCXP
 12.5Gbps x 4ch
 Max Cable Length : 30meter @ CXP12

Dimension (Unit : mm)



Back Panel

Pin No.	Name	Description
1	CoaxPress Connector 1	MicroBNC Type
2	CoaxPress Connector 2	MicroBNC Type
3	CoaxPress Connector 3	MicroBNC Type
4	CoaxPress Connector 4	MicroBNC Type
5	LED Indicator 1	LED
6	LED Indicator 2	LED
7	LED Indicator 3	LED
8	LED Indicator 4	LED
9	I/O Connector	4 Pin Circular Connector



4 pin Circular Connector

Pin No.	Name	IN/OUT	Description
1	GPIO1	IN/OUT	LINE2 (Direct IO, 3.3V)
2	GND	IN	Direct IO GND
3	GPIO2	IN/OUT	LINE3 (Direct IO, 3.3V)
4	GND	IN	Direct IO GND

LED Indicator

State	Indication
No power	Off
System booting	Solid orange
Powered, but nothing connected	Slow pulse red
Connection detection in progress, PoCXP active	Fast flash alternate green / orange
Connection detection in progress, PoCXP not in use	Fast flash orange
Device / Host connected, but no data being transferred	Solid green
Device / Host connected, waiting for event	Slow pulse orange

Model	HX-F251M-150	HX-F251K-150
Sensor	GMAX0505 25M	
Sensor size	1.1"	
Pixel size (μm)	2.5 x 2.5	
Resolution	5120 x 5120	
Pixel Clock	96MHz	
Frame Rate (Max.)	150fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X), Decimation (Y)	
Synchronization	Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset 별도)	
Gain	Digital : 1x ~ 4x	
Black level	Digital : 0 ~ 1023 (10bit)	
Gamma / LUT	Adjustable LUT (10bit to 10bit)	
Auto white balance	Off / Once / Continuous	
Auto gain / exposure	Off / Once / Continuous	
Interface	CoaxPress Standard	
Pixel Data Format	Mono8	Bayer8
SNR	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Defective Pixel Correction, Shading Correction (FFC)	
Lens mount	C mount	
Video I/F	CoaXPress / Micro-BNC	
Power requirements	PoCXP (Two PoCXP cables required)	
Consumption	PoCXP	
Weight	< 450g	
Dimension (mm)	80 x 80 x 41 (without connector)	
Temperature	0℃ ~ 35℃ (Operating) / -20℃ ~ 60℃ (with < 20 ~ 80% RH) (Storage)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년; Class A)	
Conformity	RoHS, WEEE, UL	
Warranty	3 years	

Model	HX-E671M-65	HX-E671K-65
Sensor	EMERALD 67M	
Sensor size	APS-C	
Pixel size (μm)	2.5 x 2.5	
Resolution	8192 x 8192	
Pixel Clock	75.4MHz	
Frame Rate (Max.)	65fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All)	
Synchronization	Internal (Freerun), External (CXP or Circular), Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset 별도)	
Gain	Analog : 1x ~ 3.99x Digital : 1x ~ 4x	
Black level	Digital : 0 ~ 1024 (10bit)	
Gamma / LUT	Adjustable LUT (10bit to 10bit)	
Auto white balance	Off / Once / Continuous	
Auto gain / exposure	Off / Once / Continuous	
Interface	CoaxPress Standard	
Pixel Data Format	Mono8/10	Bayer8/10
SNR	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Defective Pixel Correction, Shading Correction (FFC), Noise Reduction Filter	
Lens mount	F mount	
Video I/F	CoaxPress / Micro-BNC	
Power requirements	PoCXP (Two PoCXP cables required)	
Consumption	PoCXP	
Weight	< 461g	
Dimension (mm)	80 x 80 x 44.14 (without connector)	
Temperature	0℃ ~ 45℃ (Operating) / -20℃ ~ 60℃ (with < 20 ~ 80% RH) (Storage)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL	
Warranty	3 years	

USB3.0 Cameras



Key Features

Camera Standard
- GenICam, USB3Vision
Plug & Play
eBus Driver

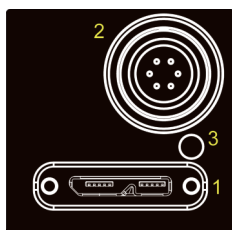
Pin map

6pin Connector

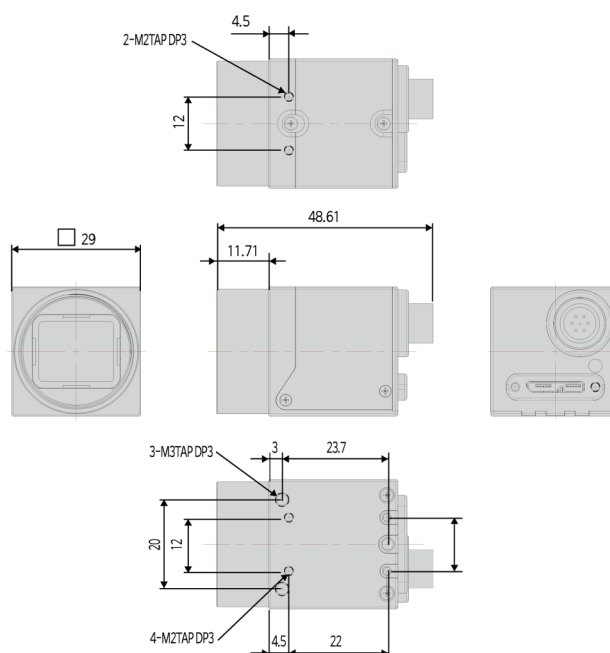
Pin	Name	IN/OUT	Remark
1	Power	IN	5V ~ 13.2V Input Range
2	Trigger	IN	Opto-Isolated Trigger Input+(2.5V~24V)
3	GPIO1	IN/OUT	General Purpose I/O 1
4	GPIO2	IN/OUT	General Purpose I/O 2
5	Trigger	IN	Opto-Isolated Trigger Input-
6	GND	IN	

Back Pannel

Pin	Name	Remark
1	USB3.1 Gen.1 Connector	Type Micro-B
2	Power & I/O Connector	6Pin Circular
3	LED Indicator	LED



Dimension (Unit : mm)



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File name



SDK : MCamU_Basic.zip

Model	MU-A040M-523	MU-A040K-523
Sensor	Sony CMOS Pregius IMX287	
Sensor size	1/2.9"	
Pixel size (μm)	6.9 x 6.9	
Resolution	728 x 544	
Frame Rate (Max.)	523fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR	35dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.3W
	USB	< 3.3W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model	MU-A160M-226	MU-A160K-226
Sensor	Sony CMOS Pregius IMX273	
Sensor size	1/2.9"	
Pixel size (μm)	3.45 x 3.45	
Resolution	1456 x 1088	
Frame Rate (Max.)	226fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All) / Binning (Only Mono Model)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR	38dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.2W
	USB	< 3.7W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model	MU-A320M-118	MU-A320K-118
Sensor	Sony CMOS Pregius IMX252	
Sensor size	1/1.8"	
Pixel size (μm)	3.45 x 3.45	
Resolution	2064 x 1544	
Frame Rate (Max.)	118fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All) / Binning (Only Mono Model)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 4.0W
	USB	< 4.7W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model	MU-A320M-55	MU-A320K-55
Sensor	Sony CMOS Pregius IMX265	
Sensor size	1/1.8"	
Pixel size (μm)	3.45 x 3.45	
Resolution	2064 x 1544	
Frame Rate (Max.)	55fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR	39dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.1W
	USB	< 3.4W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

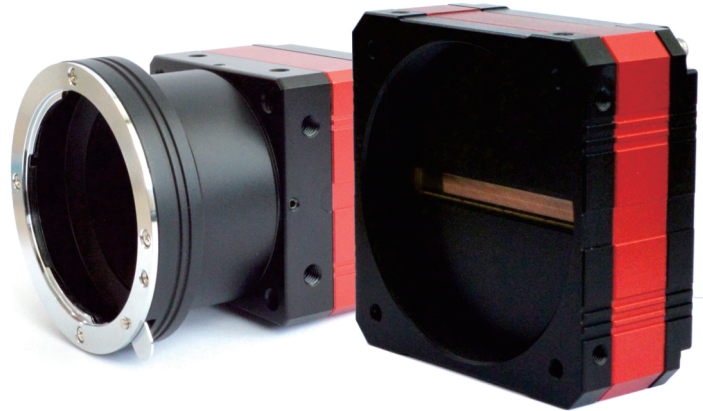
Model	MU-A500M-35	MU-A500K-35
Sensor	Sony CMOS Pregius IMX264	
Sensor size	2/3"	
Pixel size (μm)	3.45 x 3.45	
Resolution	2464 x 2056	
Frame Rate (Max.)	35fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Global	
Shutter speed	1us ~ 3sec (Exposure Offset : 별도)	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono : Mono8/10/12	Color : Mono8/10/12, BayerRG8/10/12, RGB8
SNR	38dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.2W
	USB	< 3.4W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model		MU-A121M-23	MU-A121K-23
Sensor		Sony CMOS Pregius IMX304	
Sensor size		1.1"	
Pixel size (μm)		3.45 x 3.45	
Resolution		4112 x 3008	
Frame Rate (Max.)		23fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All) / Decimation (X,Y,All)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Global	
Shutter speed		1us ~ 3sec (Exposure Offset : 별도)	
Gain		Analog : 0dB ~ 27.6dB (1x ~ 24x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous (Only Color Models)	
Auto gain / exposure		Off / Once / Continuous	
Interface		USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format		Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR		38dB	
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount		C mount	
Power requirements		DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.6W	
	USB	< 3.9W (Max.)	
Weight		< 44g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2013년); Class A)	
Conformity		RoHS, WEEE, UL, FCC	
Warranty		3 years	

Model	MU-A121R-31	MU-A121L-31
Sensor	Sony CMOS Starvis IMX226	
Sensor size	1/1.7"	
Pixel size (μm)	1.85 x 1.85	
Resolution	4072 x 3046	
Frame Rate (Max.)	31fps	
Color / Mono	Mono Chrome	Color
Scanning method	Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All)	
Synchronization	Internal (Freerun), External, Software trigger via PC	
Trigger modes	Fixed shutter, Pulse width shutter	
Shutter	Rolling, Global Reset	
Shutter speed	99us ~ 3sec	
Gain	Analog : 0dB ~ 27.6dB (1x ~ 22.5x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level	Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT	Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance	Off / Once / Continuous (Only Color Models)	
Auto gain / exposure	Off / Once / Continuous	
Interface	USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format	Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR	36dB	
Function control	GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount	C mount	
Power requirements	DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 3.6W
	USB	< 3.8W (Max.)
Weight	< 44g	
Dimension (mm)	29 x 29 x 29 (without mount)	
Temperature	0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock	98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy	CE (EN61326-1:2013년); Class A)	
Conformity	RoHS, WEEE, UL, FCC	
Warranty	3 years	

Model		MU-A201R-18	MU-A201L-18
Sensor		Sony CMOS Starvis IMX183	
Sensor size		1"	
Pixel size (μm)		2.4 x 2.4	
Resolution		5496 x 3672	
Frame Rate (Max.)		18fps	
Color / Mono		Mono Chrome	Color
Scanning method		Full / ROI (Horizontal + Vertical) / Reverse (X,Y,All)	
Synchronization		Internal (Freerun), External, Software trigger via PC	
Trigger modes		Fixed shutter, Pulse width shutter	
Shutter		Rolling, Global Reset	
Shutter speed		141us ~ 3sec	
Gain		Analog : 0dB ~ 27.6dB (1x ~ 22.5x) Digital : 0dB ~ 18dB (1x ~ 8x)	
Black level		Analog : 0 ~ 255 (8bit) / Digital : 0 ~ 4095 (12bit)	
Gamma / LUT		Gamma Correction, Adjustable LUT (12bit to 12bit)	
Auto white balance		Off / Once / Continuous	
Auto gain / exposure		Off / Once / Continuous	
Interface		USB3.1 Gen. 1 (USB3 Vision Standard 1.1)	
Pixel Data Format		Mono8/10/12	Mono8/10/12, BayerRG8/10/12, RGB8
SNR		41dB	
Function control		GainAuto, ExposureAuto, BalanceWhiteAuto, Acquisition Frame Rate (Adjustable), Line Debouncer, Defective Pixel Correction, Shading Correction (FFC), Color Transformation Control, NoiseReduction	
Lens mount		C mount	
Power requirements		DC 5V ~ 13.2V ± 10% or USB3 Bus	
Consumption	DC	< 4.0W	
	USB	< 4.0W (Max.)	
Weight		< 44g	
Dimension (mm)		29 x 29 x 29 (without mount)	
Temperature		0℃ ~ 40℃ (Operating) / -20℃ ~ 60℃ (Storage)-(with < 20 ~ 80% RH)	
Vibration / Shock		98m/s ² (10G) / 196m/s ² (20.0G)	
Standard compliancy		CE (EN61326-1:2013년); Class A)	
Conformity		RoHS, WEEE, UL	
Warranty		3 years	

Line Scan Cameras



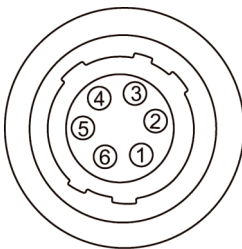
Key Features

2, 4, 8, 16K CMOS Line scan camera
High sensitivity & Speed
Standard cameralink interface
PRNU supported
CamguideCL

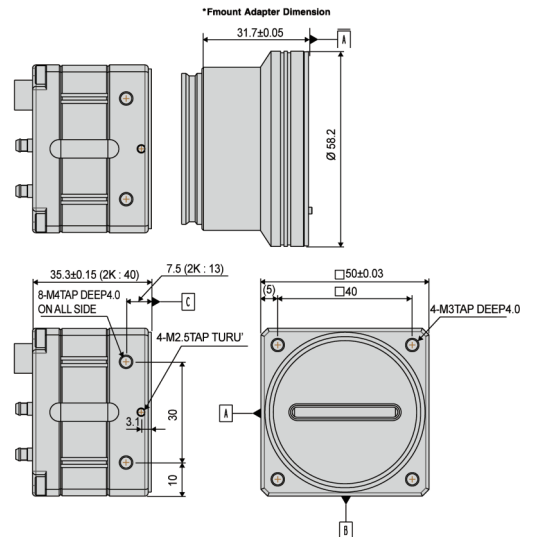
Dimension (Unit : mm)

Pin map

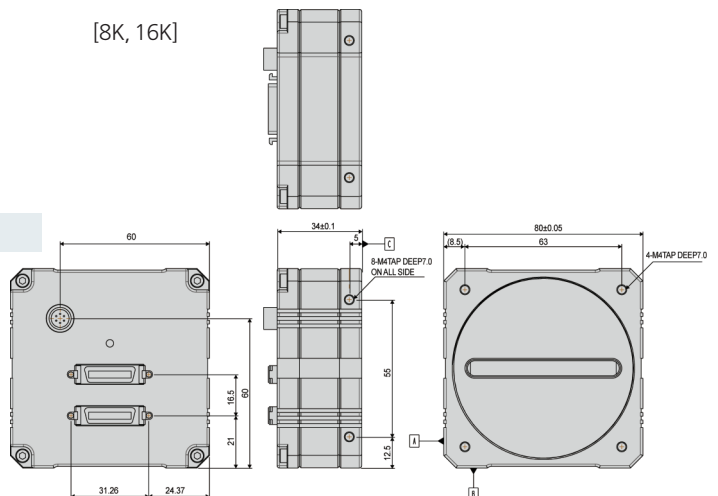
Pin	Name	IN/OUT	Description
1	PWR	IN	10.8V~13.2V Input Range
2	PWR	IN	10.8V~13.2V Input Range
3	-	-	-
4	-	-	-
5	GND	IN	Power GND
6	GND	IN	Power GND



[2K, 4K]



[8K, 16K]



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CamguideCL : [CamguideCL.zip](#)

Camfile : [Linescan_Camfile.zip](#)

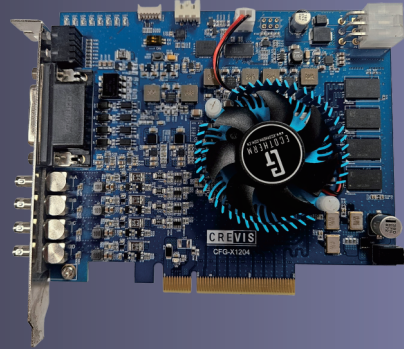
Model (Mono)	LV-M422C	LV-M824C
Image sensor	DR-2X2K-7-LCC	DR-2X4K-7
Pixel number	2,048 x 2	4,096 x 2
Sensor size	Linear CMOS	
Pixel size (μm)	7 x 7	7 x 7
Max. Line rates	141KHz	
Video output type	CameraLink™	
Pixel clock	80MHz	
Gain	0~19dB	
Lens mount	C/F Mount	F Mount
Pixel Data Format	mono 8/10/12	
Gamma	LUT	
Digital I/F	CameraLink Base,Medium	CameraLink Medium, Full
Power requirement	12VDC ± 10%, PoCL	
Connector	SDR x 2/6pin Circular (Power Only)	
Serial I/F	RS-232C	
Temperature	0℃ ~ 45℃	
Operating humidity	Humidity 20% to 80% Non-Condensation	
Dimension (mm)	50 x 50 x 40	50 x 50 x 35.3
Power consumption	< 2.8W	< 5.3W
Weight	< 188g	< 200g
Alignment accuracy	dθ: < ±0.2°	
Conformity	CE, RoHS	
Warranty	3 years	

Model (Mono)	LV-M818C	LV-M8116C
Image sensor	DR-1X8K-7	DR-16K-3.5
Pixel number	8,192 x 1	16,384 x 1
Pixel size (μm)	7 x 7	3.5 x 3.5
Max. Line rates	75KHz	37.5KHz
Video output type	CameraLink™	
Pixel clock	85MHz	
Gain	0~19dB	
Lens mount	M72 Mount	
Pixel Data Format	mono 8/10/12	
Gamma	LUT	
Digital I/F	CameraLink Medium, Full	
Power requirement	12VDC ± 10%	
Connector	MDR x 2/6pin Circular (Power Only)	
Serial I/F	RS-232C	
Operating humidity	Humidity 20% to 80% Non-Condensation	
Dimension (mm)	80 x 80 x 34	
Power consumption	< 6W	< 5.8W
Weight	< 271g	
Alignment accuracy	dθ: < ±0.2°	
Conformity	CE, RoHS	
Warranty	3 years	

NEW PRODUCT RELEASE

CoaXPress 2.1 CFG-X1204 출시

* Total Vision Solution의 완성



CFG-X1204 핵심 하이라이트



CoaXPress 2.1

최신 CXP12 속도 지원으로
고속 데이터 전송 실현



PCIe Gen3

x8 Lane 인터페이스 탑재
안정적인 대역폭 확보



4-Channel

Micro-BNC 커넥터 채용
유연한 멀티 카메라 구성



PoCXP Power

케이블 하나로 전원까지 공급
간결한 시스템 배선

Technical Specifications

IPC Interface	PCI Express Gen3, 8Lane
Camera Interface	CoaXPress 2.1 : CXP12
CXP HOST Connector	4 x Micro-BNC
Max. Camera Support	One 1- or 2- connection, Two 1- or 2- connection, Four connection camera 지원
PoCXP Power	24VDC@17W/one connector
Dimensions	132 x 103mm

Why Crevis?

- 최적화된 안정성
자사 카메라와 완벽 호환
- 검증 간소화
통합 공급으로 리소스 절약
- 원스톱 기술 지원
단일 창구의 신속한 응대
- SW 마이그레이션
기존 보드 변경 기술 지원

FLU120 시리즈

- 25MP, 1.2" 센서 지원
- 소형 사이즈
- 왜곡 최소화
- 합리적인 금액



Brand New

크래비스 렌즈 최적의 렌즈 솔루션!

• 고정 초점거리 렌즈

FLS118 시리즈

6MP, 1/1.8" 센서 지원

FLH230 시리즈

10MP, 2/3" 센서 지원

FLU110 시리즈

20MP, 1.1" 센서 지원

FLU120 시리즈

25MP, 1.2" 센서 지원

• 텔레센트릭 렌즈

TLH 시리즈

5MP, 2/3" 센서 지원

TLU 시리즈

25MP, 1.1" 센서 지원

Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLU120-F18	1.2"	25M	18mm	4.0-16	100mm	M35.5xP0.5	C
FLU120-F20	1.2"	25M	20mm	3.5-16	200mm	M35.5xP0.5	C
FLU120-F25	1.2"	25M	25mm	4.0-16	150mm	M35.5xP0.5	C
FLU120-F35	1.2"	25M	35mm	4.0-16	180mm	M35.5xP0.5	C
FLU120-F50	1.2"	25M	50mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F70	1.2"	25M	70mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F75	1.2"	25M	75mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F100	1.2"	25M	100mm	4.0-16	450mm	M35.5xP0.5	C

Lens Comparison Chart

Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLS118-F06	1/1.8"	6M	6mm	2.0-16	100mm	/	C
FLS118-F08	1/1.8"	6M	8mm	2.8-16	75mm	M27xP0.5	C
FLS118-F12	1/1.8"	6M	12mm	2.8-16	110mm	M27xP0.5	C
FLS118-F16	1/1.8"	6M	16mm	2.8-16	110mm	M27xP0.5	C
FLS118-F25	1/1.8"	6M	25mm	2.8-16	150mm	M27xP0.5	C
FLS118-F35	1/1.8"	6M	35mm	2.8-16	200mm	M27xP0.5	C
FLS118-F50	1/1.8"	6M	50mm	2.8-16	300mm	M27xP0.5	C

Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLH230-F08	2/3"	10M	8mm	2.6-16	110mm	/	C
FLH230-F12	2/3"	10M	12mm	2.0-16	110mm	M27xP0.5	C
FLH230-F16	2/3"	10M	16mm	2.0-16	100mm	M27xP0.5	C
FLH230-F25	2/3"	10M	25mm	2.0-16	200mm	M25.5xP0.5	C
FLH230-F35	2/3"	10M	35mm	2.0-16	200mm	M31.5xP0.5	C
FLH230-F50	2/3"	10M	50mm	2.0-16	300mm	M30.5xP0.5	C
FLH230-F75	2/3"	10M	75mm	2.0-16	400mm	M44.5xP0.5	C

Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLU100-F12	1.1"	20M	12mm	2.8-16	100mm	/	C
FLU100-F16	1.1"	20M	16mm	2.8-16	100mm	M35.5xP0.5	C
FLU100-F25	1.1"	20M	25mm	2.8-16	150mm	M35.5xP0.5	C
FLU100-F35	1.1"	20M	35mm	2.8-16	200mm	M35.5xP0.5	C
FLU100-F50	1.1"	20M	50mm	2.8-16	300mm	M35.5xP0.5	C

Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLU120-F18	1.2"	25M	18mm	4.0-16	100mm	M35.5xP0.5	C
FLU120-F20	1.2"	25M	20mm	3.5-16	200mm	M35.5xP0.5	C
FLU120-F25	1.2"	25M	25mm	4.0-16	150mm	M35.5xP0.5	C
FLU120-F35	1.2"	25M	35mm	4.0-16	180mm	M35.5xP0.5	C
FLU120-F50	1.2"	25M	50mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F70	1.2"	25M	70mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F75	1.2"	25M	75mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F100	1.2"	25M	100mm	4.0-16	450mm	M35.5xP0.5	C

FLS118 Series

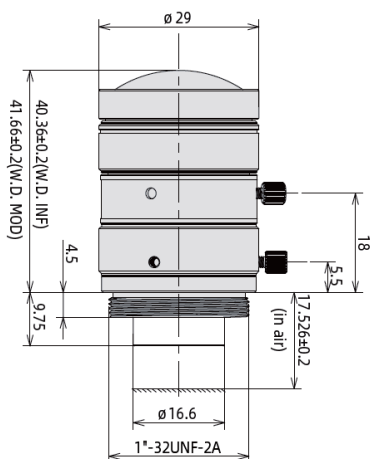
Fixed Focal Length Lenses

- Supports 6MP 1/1.8 inches

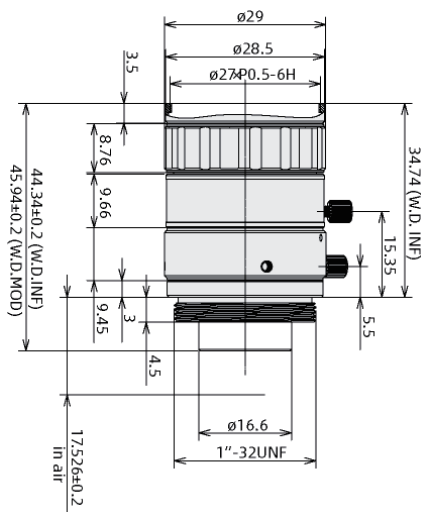


Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLS118-F06	1/1.8"	6M	6mm	2.0-16	100mm	/	C
FLS118-F08	1/1.8"	6M	8mm	2.8-16	75mm	M27xP0.5	C
FLS118-F12	1/1.8"	6M	12mm	2.8-16	110mm	M27xP0.5	C
FLS118-F16	1/1.8"	6M	16mm	2.8-16	110mm	M27xP0.5	C
FLS118-F25	1/1.8"	6M	25mm	2.8-16	150mm	M27xP0.5	C
FLS118-F35	1/1.8"	6M	35mm	2.8-16	200mm	M27xP0.5	C
FLS118-F50	1/1.8"	6M	50mm	2.8-16	300mm	M27xP0.5	C

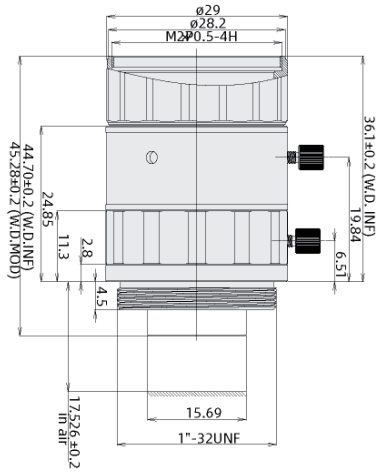
FLS118-F06



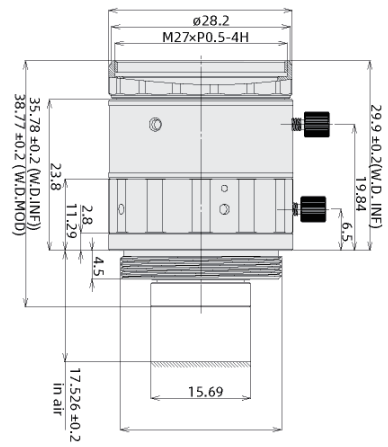
FLS118-F08



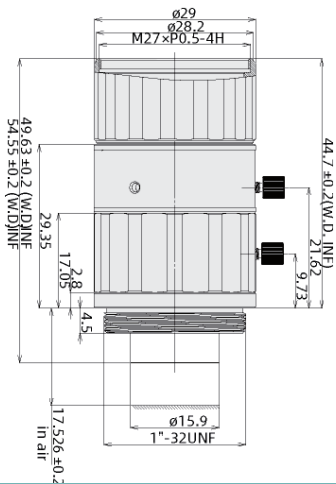
FLS118-F12



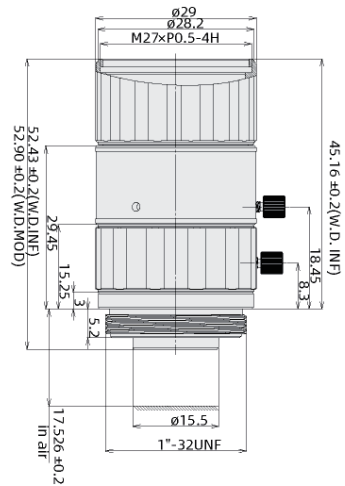
FLS118-F16



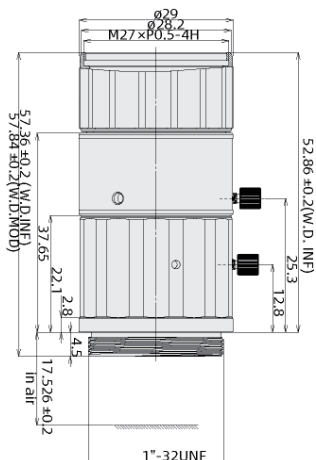
FLS118-F25



FLS118-F35



FLS118-F50



FLH230 Series

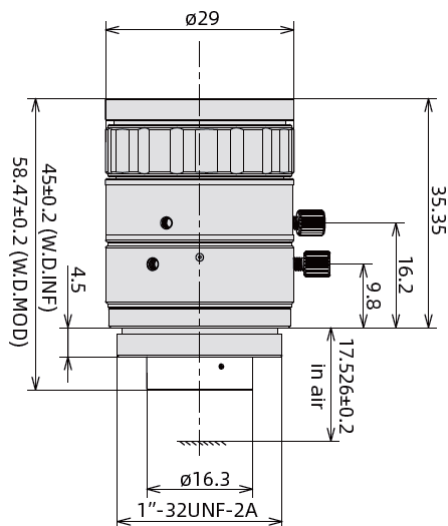
Fixed Focal Length Lenses

- Supports 10MP 2/3 inches

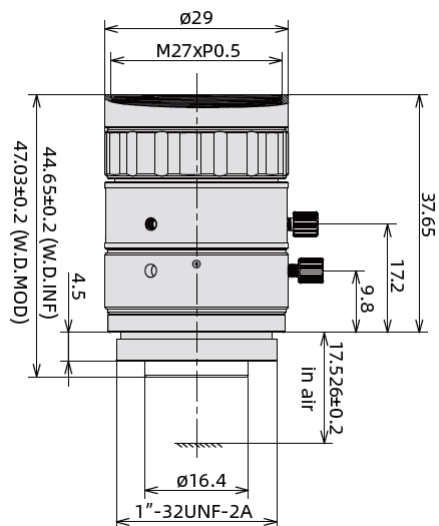


Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLH230-F08	2/3"	10M	8mm	2.6-16	110mm	/	C
FLH230-F12	2/3"	10M	12mm	2.0-16	110mm	M27xP0.5	C
FLH230-F16	2/3"	10M	16mm	2.0-16	100mm	M27xP0.5	C
FLH230-F25	2/3"	10M	25mm	2.0-16	200mm	M25.5xP0.5	C
FLH230-F35	2/3"	10M	35mm	2.0-16	200mm	M31.5xP0.5	C
FLH230-F50	2/3"	10M	50mm	2.0-16	300mm	M30.5xP0.5	C
FLH230-F75	2/3"	10M	75mm	2.0-16	400mm	M44.5xP0.5	C

FLH230-F08



FLH230-F12



FLH230-F16



FLH230-F25



FLH230-F35



FLH230-F50

FLH230-F75



FLU100 Series

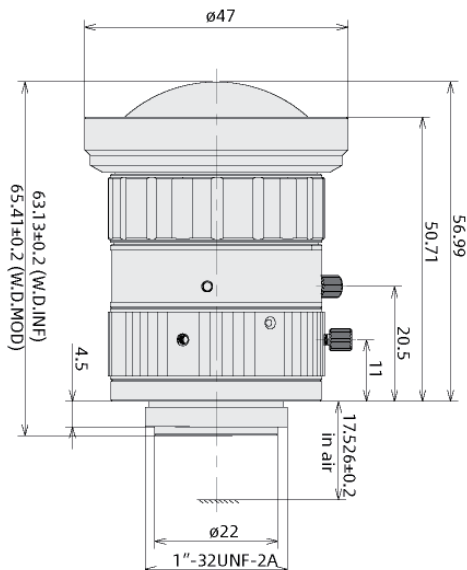
Fixed Focal Length Lenses

- Supports 20MP 1.1 inches

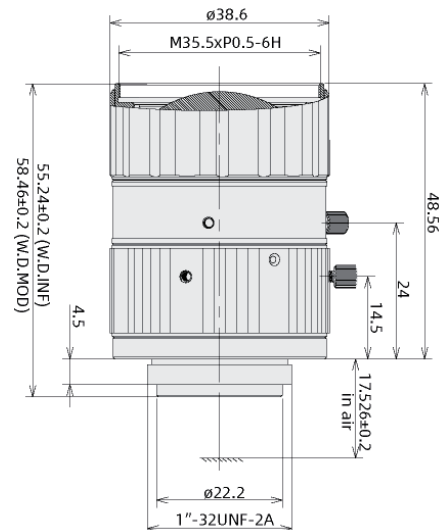


Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLU100-F12	1.1"	20M	12mm	2.8-16	100mm	/	C
FLU100-F16	1.1"	20M	16mm	2.8-16	100mm	M35.5xP0.5	C
FLU100-F25	1.1"	20M	25mm	2.8-16	150mm	M35.5xP0.5	C
FLU100-F35	1.1"	20M	35mm	2.8-16	200mm	M35.5xP0.5	C
FLU100-F50	1.1"	20M	50mm	2.8-16	300mm	M35.5xP0.5	C

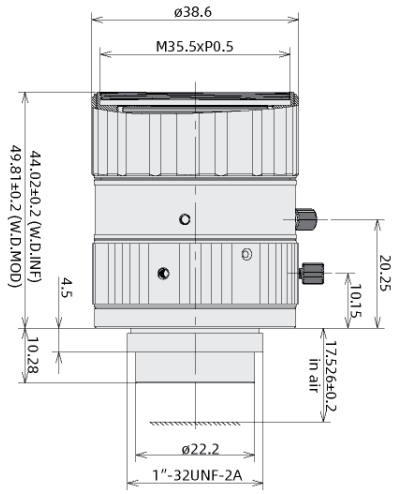
FLU100-F12



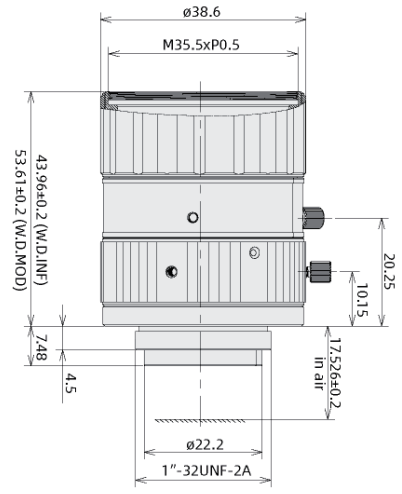
FLU100-F16



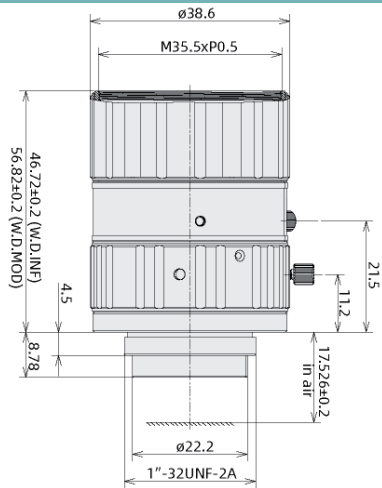
FLU100-F25



FLU100-F35



FLU100-F50



FLU120 Series

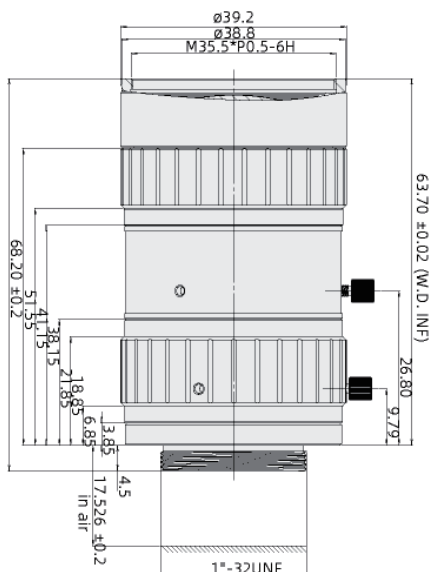
Fixed Focal Length Lenses

- Supports 24MP 1.2 inches

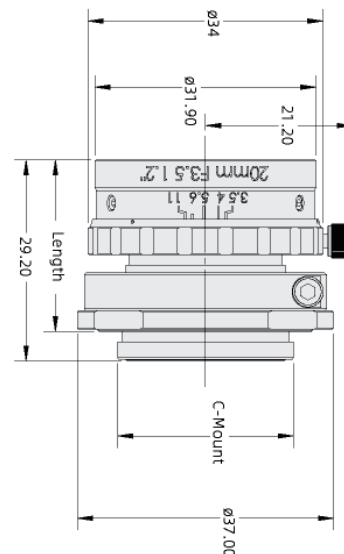


Model	Sensor Size	Resolution	Focal Length	F#	M.O.D	Filter Size	Mount
FLU120-F18	1.2"	25M	18mm	4.0-16	100mm	M35.5xP0.5	C
FLU120-F20	1.2"	25M	20mm	3.5-16	200mm	M35.5xP0.5	C
FLU120-F25	1.2"	25M	25mm	4.0-16	150mm	M35.5xP0.5	C
FLU120-F35	1.2"	25M	35mm	4.0-16	180mm	M35.5xP0.5	C
FLU120-F50	1.2"	25M	50mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F70	1.2"	25M	70mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F75	1.2"	25M	75mm	4.0-16	300mm	M35.5xP0.5	C
FLU120-F100	1.2"	25M	100mm	4.0-16	450mm	M35.5xP0.5	C

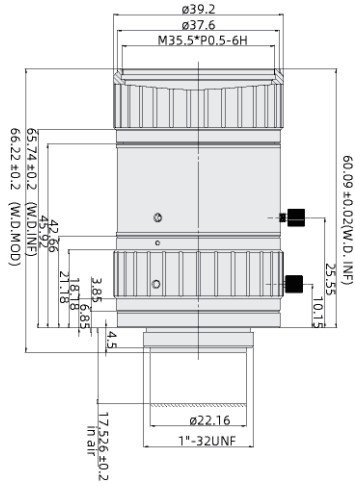
FLU120-F18



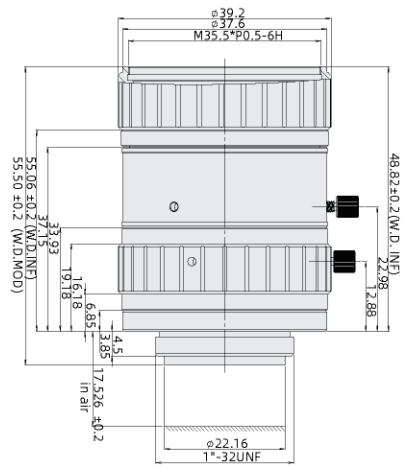
FLU120-F20



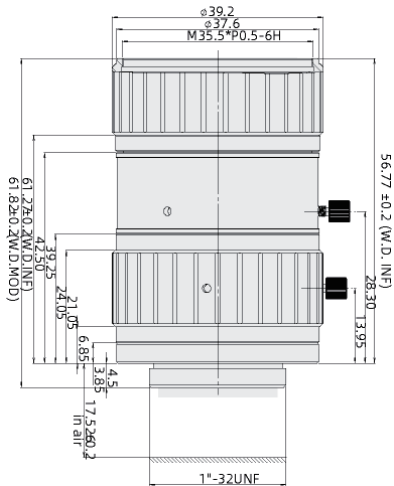
FLU120-F25



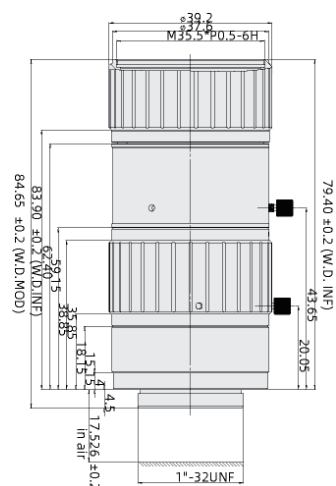
FLU12-F35



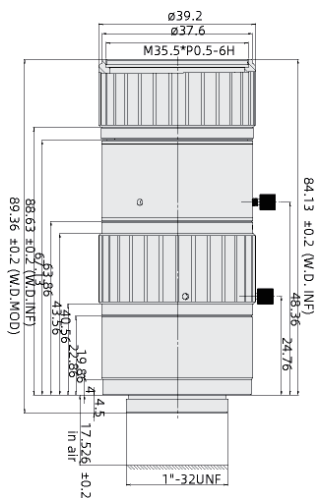
FLU120-F50



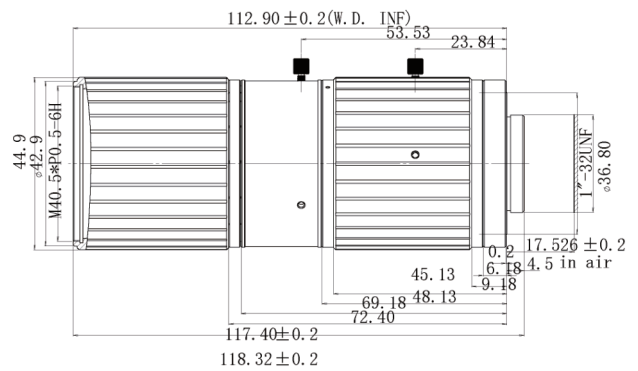
FLU120-F70



FLU120-F75



FLU120-F100



Telecentric Lenses

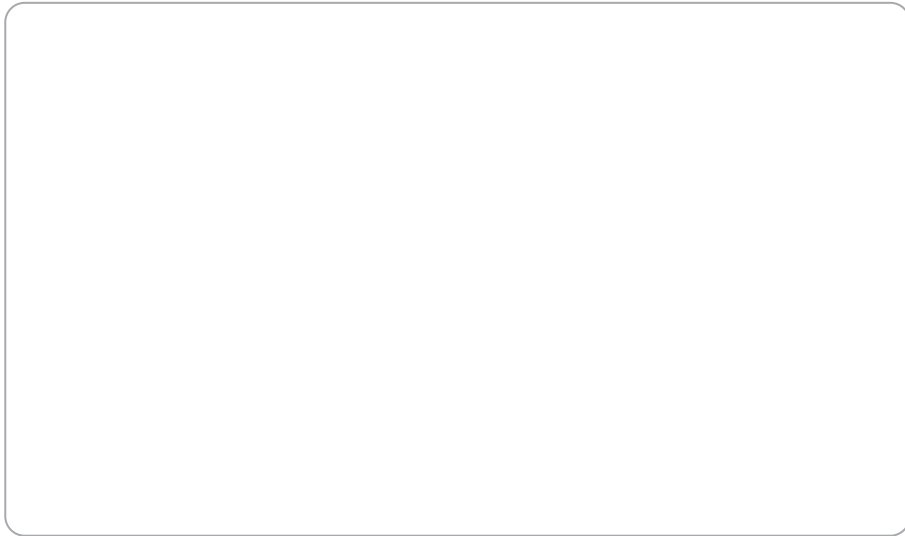
- Supports 25MP 1.1 inches
- Supports 5MP 2/3 inches



1.1" 25MP Telecentric Lens	Sensor Size (Φmm)	Mag (x)	WD (mm)	FOV (Φmm)	F/#	MTF30 (lp/mm)	Mount	External Adjustable Iris
TLU110-M050	18.0(1.1")	0.5	110±2	36.00	7.0	124	C	NO
TLU110-M080	18.4(1.1")	0.8	110±2	23.00	6.6	128	C	NO
TLU110-M100	18.4(1.1")	1.0	110±2	18.40	7-32	>105	C	YES
TLU110-M150	18.0(1.1")	1.5	110±2	12.00	10-32	>78	C	YES
TLU110-M200	18.0(1.1")	2.0	110±2	9.00	13.5-32	>60	C	YES
TLU110-M300	18.0(1.1")	3.0	110±2	6.00	20.1	>40	C	NO
TLU108-M400	18.4(1.1")	4.0	108±2	4.60	20.0	43	C	NO
TLU108-M600	18.4(1.1")	6.0	108±2	3.07	29.7	29	C	NO
TLU108-M800	18.4(1.1")	8.0	108±2	2.30	40.4	21	C	NO
TLU220-M050	18.0(1.1")	0.5	220±3	36.00	7.0	>140	C	NO
TLU220-M055	18.0(1.1")	0.55	220±3	32.73	10.1	>90	C	NO

2/3" 5MP Telecentric Lens	Sensor Size (Φmm)	Mag (x)	WD (mm)	FOV (Φmm)	F/#	MTF30 (lp/mm)	Mount	External Adjustable Iris
TLH065-M075	11.0(2/3")	0.75	65±1	14.67	10.6	75	C	NO
TLH065-M080	11.0(2/3")	0.8	65±1	13.75	10	75	C	NO
TLH065-M100	11.0(2/3")	1	65±1	11.00	11.1	74	C	NO
TLH065-M150	11.0(2/3")	1.5	65±1	7.33	12.5	65	C	NO
TLH065-M200	11.0(2/3")	2	65±1	5.50	13.2	60	C	NO
TLH065-M300	11.0(2/3")	3	65±1	3.67	15.7	40	C	NO
TLH065-M400	11.0(2/3")	4	65±1	2.75	17.9	45	C	NO
TLH065-M600	11.0(2/3")	6	65±1	1.83	24.6	35	C	NO
TLH065-M750	11.0(2/3")	7.5	65±1	1.47	32	27	C	NO
TLH065-M800	11.0(2/3")	8	65±1	1.38	31	75	C	NO
TLH110-M030	11.0(2/3")	0.3	110±2	36.67	5.6-32	>170	C	YES
TLH110-M040	11.0(2/3")	0.4	110±2	27.50	7-32	>140	C	YES
TLH110-M050	11.0(2/3")	0.5	110±2	22.00	7.0	>140	C	NO
TLH110-M400	11.0(2/3")	4	110±2	2.75	20	50	C	NO
TLH110-M600	11.0(2/3")	6	110±2	1.83	38.9	23	C	NO

MEMO



(주) 크래비스

www.crevis.co.kr

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Sales : +82-31-289-3324, 3325