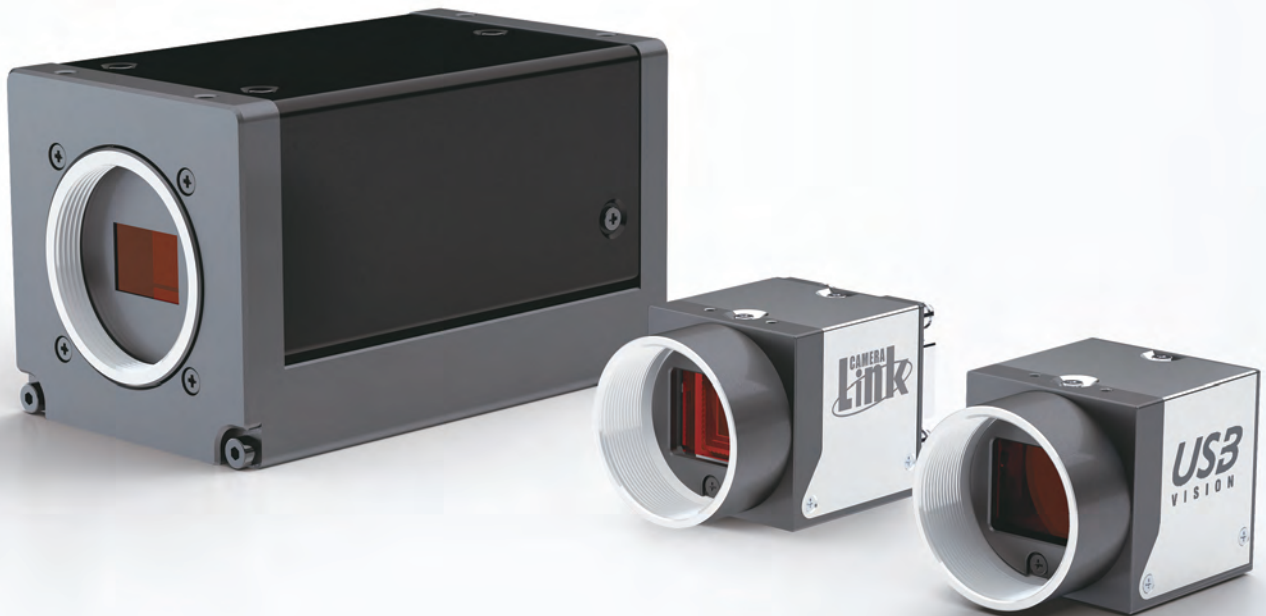




More than what you see!

국내 최초 3 CMOS 카메라 / 편광 카메라



www.crevis.co.kr

3 CMOS (Prism) Camera

국내 최초 프리즘 카메라 출시!



* 상기모델은 Full Model입니다.

TC-A040K-200

- Sony Pregius IMX 287 (X3) 센서 탑재
- 높은 프레임 수와 뛰어난 색 재현성
- 각 픽셀마다 R,G,B 값 보유

* 보간법 (Interpolation)에 의한 색 변화 및 해상력 저하 없음

제품 사양

Specification	TC-A040K-200
Sensor	IMX287 (x3)
Sensor Size	1/2.9 inch
Pixel Size(um)	6.9 x 6.9
Active Pixels	728 x 540
Frame Rate	198 fps (@3Tap) / RGB8 Base
Color / Mono	Color
Sync. System	Internal (Freerun) or External (CC1 ~ CC4 / Optocoupler In x2 Out x1 / GPIO (TTL) x2 / Software)
Trigger Mode	Fixed shutter, Pulse width shutter
Shutter Speed	Variable : 8.6us ~ 200sec
Gain	Digital : 0dB ~ 36dB (색 Gain 포함)
Black Level	Digital : 0 ~ 1024 (LSB of 12bit)
Gamma	Mono : LUT (12bit to 12bit), Color : 1.0 Fixed
Video I/F	CameraLink™ (SDR x 2)
Video Format	RGB8, Mono8 by 12bit ADC
Function Control	GPI/O, Trigger, Strobe ROI, Shutter setting, Gain, Black level, LUT,
Lens mount	C Mount
Power Supply	24VDC ± 10%
Consumption	< 4.5W
Weight	163g
Dimension	44 x 44 x 73.5 mm

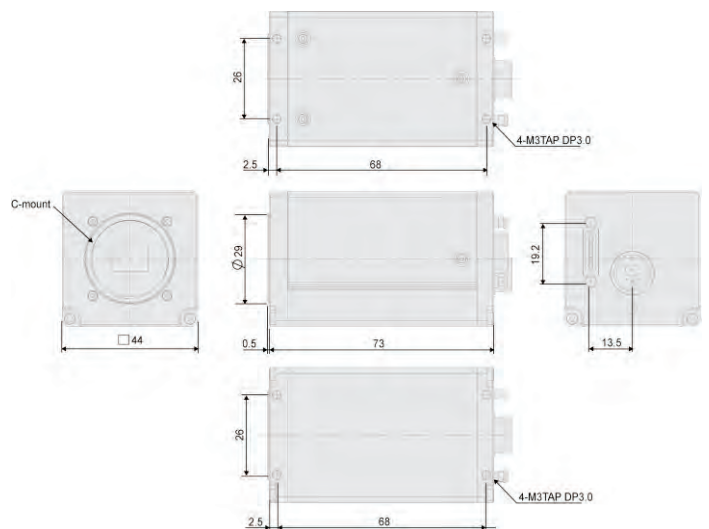
Key Features

- 인터페이스 : CameraLink
- 해상도 : 728 x 540
- 속도 : 200 fps

Application

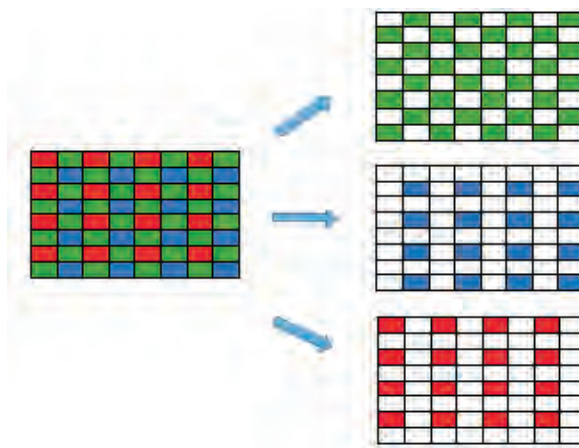
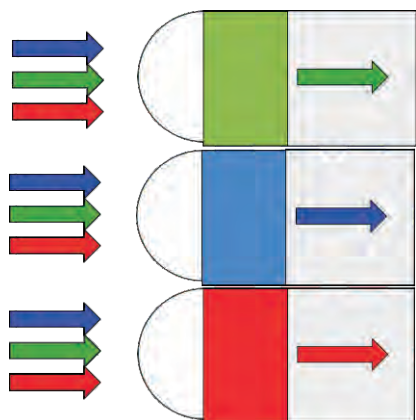
- 의료 진단 장비/ 의약품
- 식품
- 전자 부품
- 인쇄 / 포장
- 디스플레이
- 현미경 촬영

Dimension

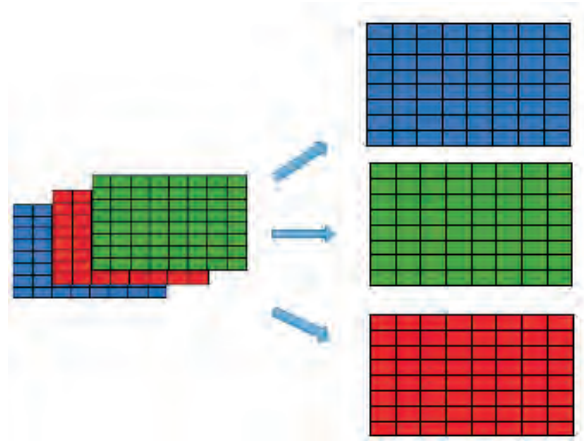
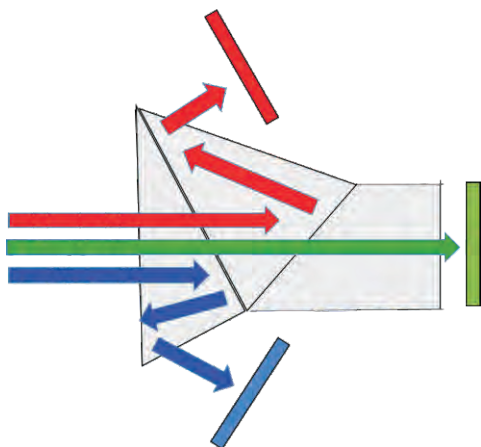


이미지 취득 방식

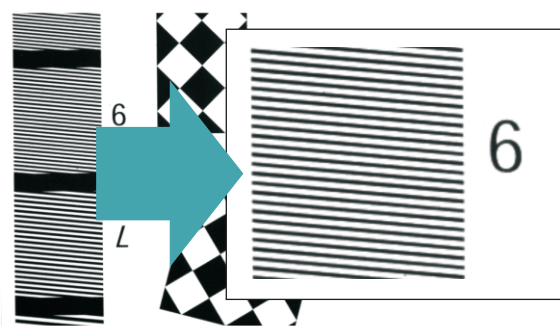
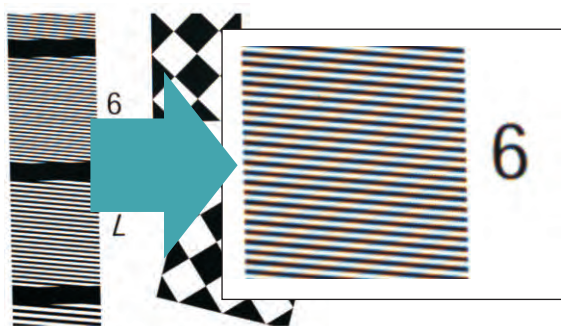
Single Bayer 센서



3 CMOS 센서



Single Bayer 센서 VS 3 CMOS 센서



Polarization Camera



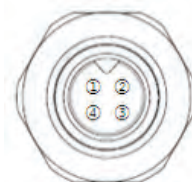
제품 사양

Specification	MC-A500P-163
Sensor Format	2/3 inch
Image Sensor	CMOS
Pixel Size (μm)	3.45 x 3.45
Effective Pixels	2464 x 2056
Pixclk	74.25 Mhz
Max Frame Rate	163 fps (135 fps)
Scanning System	Progressive
Scanning Method	Full / ROI(Horizontal+Vertical) / Reverse(X,Y,All)
Sync. System	Internal(Freerun), External, Software trigger via Frame Grabber
Trigger Mode	Fixed shutter, Pulse width shutter
pixel Formats	Mono8/10, Bayer8/10, RGB8Polarization, RGB8Degree
Output Format Selector	DoLP, AoP, Intensity(S0), 0Degree, 45Degree, 90Degree, 135Degree
ADC	8/10 bit
Gain	Analog : 0dB ~ 24dB (1x ~ 15.8x) / Digital : 0dB ~ 18dB (1x ~ 8x)
Gamma	Adjustable LUT (10bit to 10bit)
Auto Gain/Exposure	Off/Once/ Continuous
ROI	Horizontal / Vertical ROI Support
Video I/F	Camera Link Full interface
Function Control	GainAuto, ExposureAuto, Acquisition Frame Rate(Adjustable), Noise Reduction, Defect correction
Lens mount	C mount
Num. Of C/L Tap	10 Tap (exclude RGB mode)
C/L Pixel Freq.	85 Mhz
Optical accuracy	Optical center ≤ ± 0.2 mm
Power Supply	12~24VDC ± 10% or PoCL
Consumption	2.2W
Weight	< 50g
Dimension	29 x 29 x 29 mm (Without mount and back connector)
Operating / Storage	0°C ~ +40°C / -5°C ~ +45°C (with < 20~80% RH)
Vibration / Shock	98 m/s ² (10.0 G) / 490 m/s ² (50.0 G)
Standard Compliance	CE (EN61326-1; 2006년; Class A)
Environments	RoHS / WEEE

Key Features

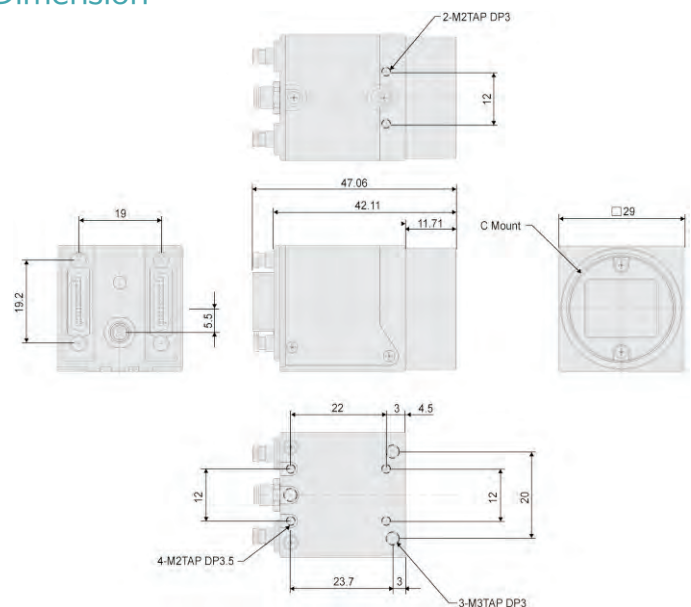
- Sony polarized CMOS Sensor
- 인터페이스 : CameraLink
- 해상도 : 2464 x 2056
- 속도 : 163 fps
- 편광 알고리즘 내재화
- PoCL 지원

핀맵



Pin No.	Name	IN/ OUT	Description
1	DC VCC	IN	10.8V ~ 26.4V Input Range
2	DC VCC	IN	10.8V ~ 26.4V Input Range
3	DC GND	IN	-
4	DC GND	IN	-

Dimension



편광 원리

편광 각도별 이미지



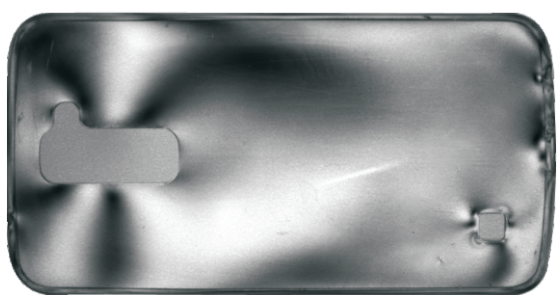
0°



45°



90°



135°

속성값 출력



Aop



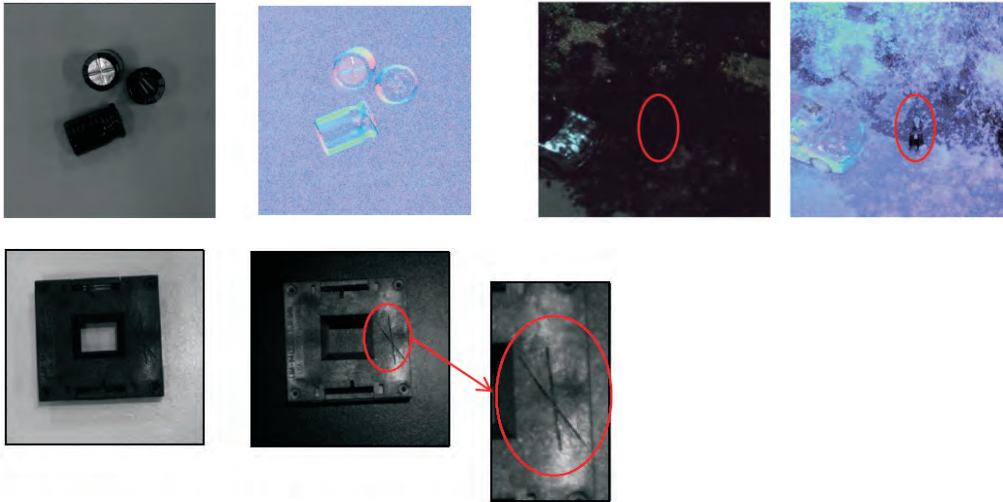
Dolp



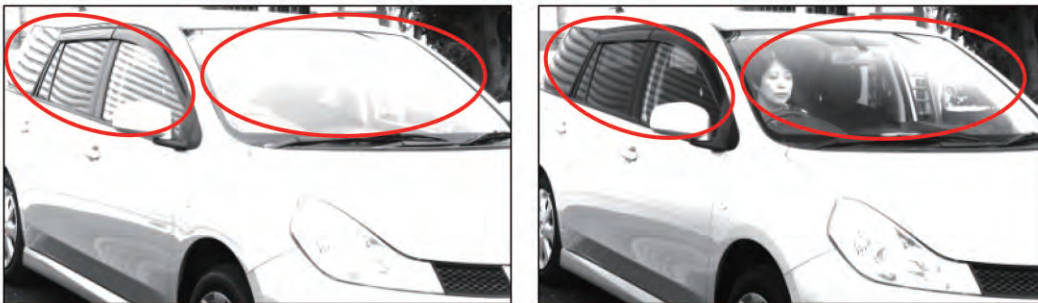
Intensity

편광의 장점 및 적용사례

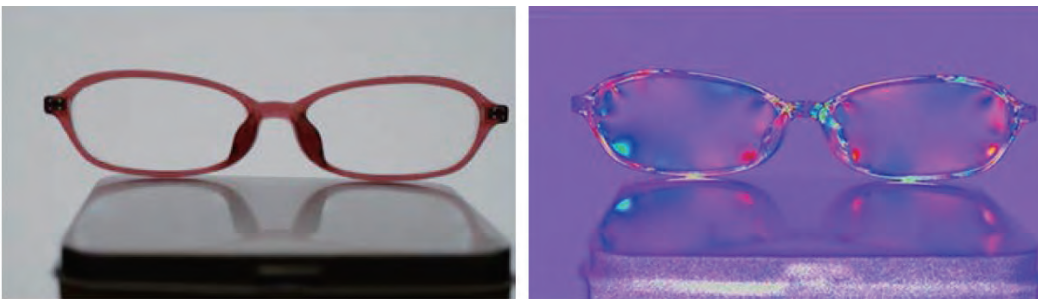
저조도에서 어두운 물체 형상 인식



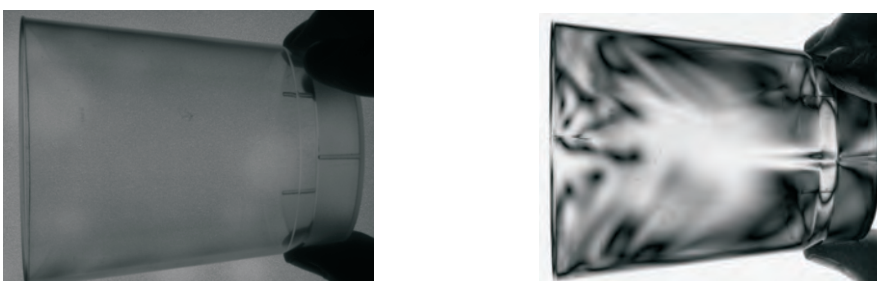
빛 반사 억제



왜곡(스트레스) 검사



투명한 재질의 스크래치 및 찍힘 검사



USB 3.0 Camera



제품 사양

Model Name	Resolution	Sensor	Sensor Size	fps	출시예정시기
MU-A040M(K)	720 x 520	IMX287	1/2.9 inch	525 fps	2019' 2Q
MU-A160M(K)	1440 x 1080	IMX273	1/2.9 inch	227 fps	2019' 2Q
MU-A320M(K)	2064 x 1544	IMX252 (IMX265)	1/1.8 inch	120 fps (55 fps)	2019' 2Q
MU-A500M(K)	2464 x 2056	IMX250 (IMX264)	2/3 inch	75 fps (35 fps)	2019' 2Q
MU-A121M(K)	4096 x 3000	IMX304	1.1 inch	23 fps	2019' 2Q
MU-A121R(L)	4000 x 3000	IMX226	1/1.7 inch	31 fps	2019' 2Q
MU-A201R(L)	5496 x 3672	IMX183	1 inch	18 fps	2019' 2Q

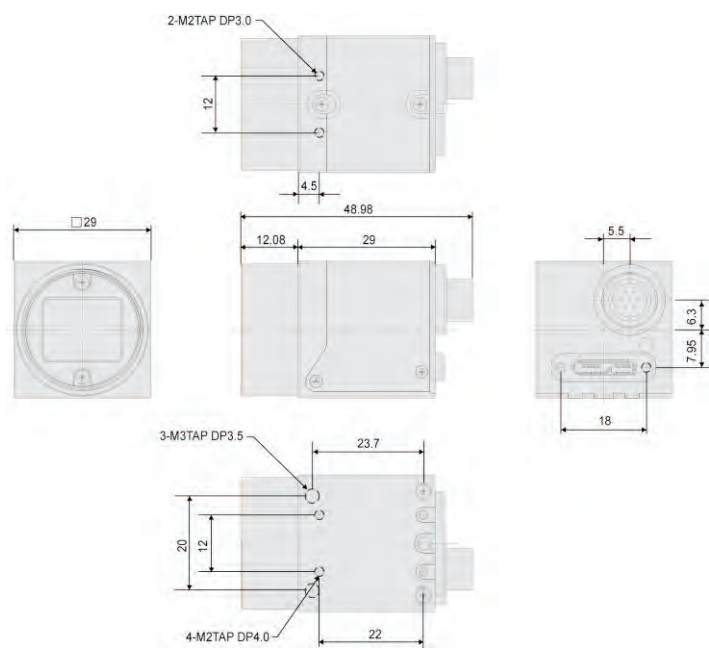
Key Features

- 최대 20MP의 해상도 지원
- 29 x 29 x 29 mm의 초소형 사이즈
- 간단한 케이블 연결
- 외부 트리거 지원

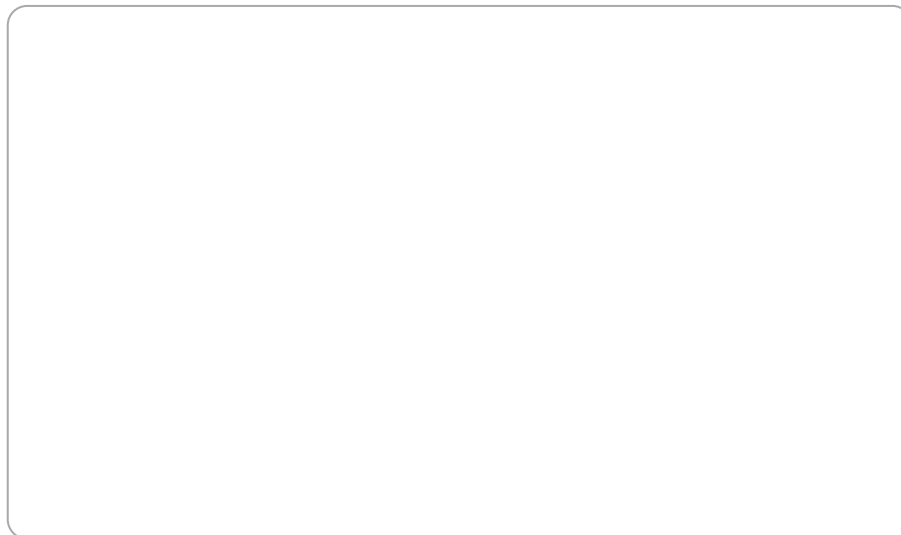
Pregius

STARVIS

Dimension



Documentation offered by your distributor



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