

# 3CMOS Cameras



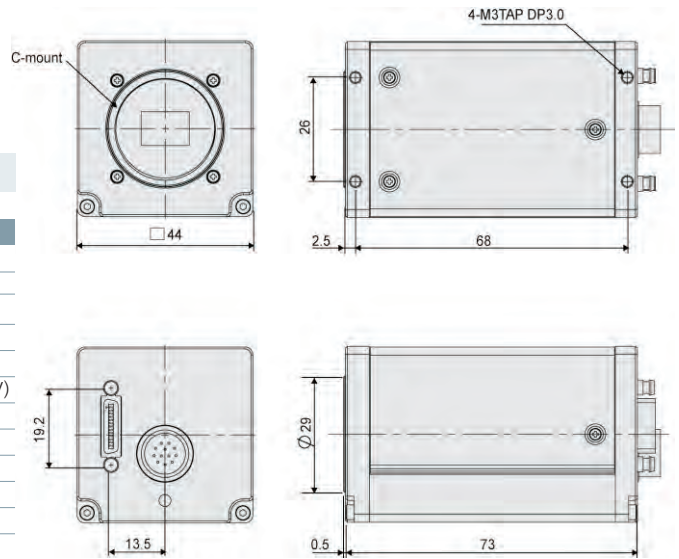
## Key Features

- 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

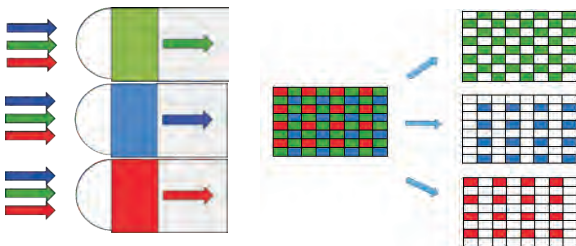
No.	Name	IN/OUT	Description
1	GND	IN	-
2	PWR	IN	10.8V ~ 26.4V Input Range
3	-	-	-
4	-	-	-
5	Trigger -	IN	Opto-Isolated Trigger Input-
6	Trigger +	IN	Opto-Isolated Trigger Input+(2.5V~24V)
7	GPIO_0	IN/OUT	TTL / Input : 3.3V ~ 24V / Out : 3.3V
8	GND	IN	GPIO GND
9	-	-	-
10	GPIO_1	IN/OUT	TTL / Input : 3.3V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

## Dimension (Unit : mm)

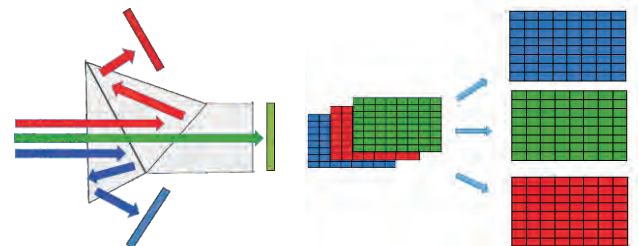


## Image Acquisition Method

### Single Bayer Sensor



### 3CMOS Sensor



Model	TC-A160K-SEM	
Sensor	Sony CMOS Preigus IMX273	
Sensor size	1/2.9"	
Pixel size ( $\mu\text{m}$ )	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 x2 / GPIO(TTL)x2 / Software)	
Trigger mode	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, Noise Reduction	
Lens mount	C mount	
Power requirements	DC 12V ~ 24V $\pm$ 10% or PoCL	
Consumption	DC	< 4.5W
	PoCL	
Weight	< 163g	
Dimension	44 x 44 x 73.5 mm (without mount, Connector)	
Temperature	-5°C ~ 45°C (Operating) / -20°C ~ 60°C (Storage)-(with <20~80% RH)	
Vibration / Shock	98m/s <sup>2</sup> (10G) / 196m/s <sup>2</sup> (20.0G)	
Standard compliancy	CE (EN61326-1;2006년; Class A)	
Conformity	RoHS, WEEE	
Warranty	3 years	