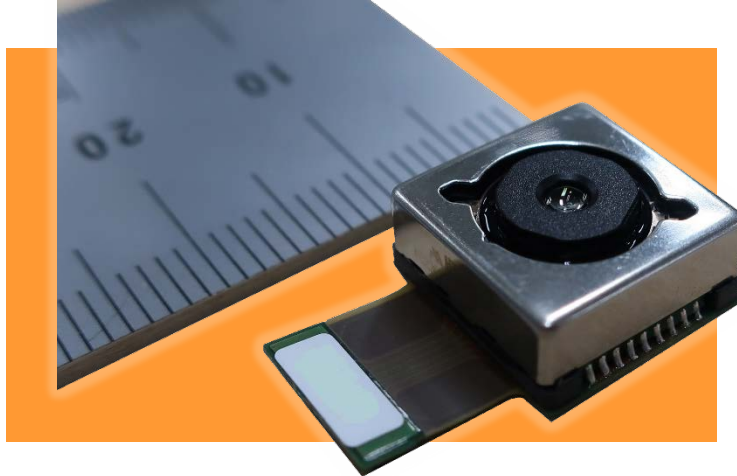


Small footprint for mobile use

Camera module



High sensitivity and low noise 1/2.3 SONY image sensor

More than 2.5 times high sensitivity and low noise image (comparing with $1\mu\text{m}$ pixel size) through the pixel size expanded to $1.55\mu\text{m}$.

Even backlight can get a clear image both of still and video by SME-HDR technology.

Diagonal 7.857mm (Type 1/2.3) 12.3M pixel CMOS image sensor with a square pixel array.

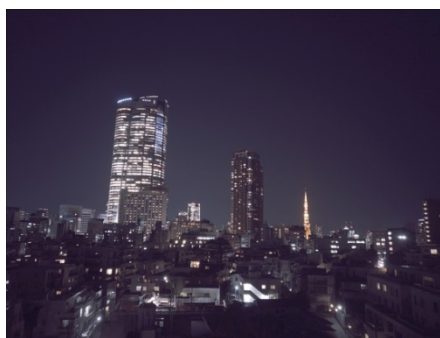
High speed video output and OIS (Optical Image Stabilizer)

Full resolution@60fps, 4K2K@60fps, 1080p@240fps

The OIS function has the effect which makes blurring of an image decrease.

Head size 13.1mm (W) \times 12.5mm (D) \times 5.9mm (H), 34pins of terminals

Summary of Specifications		CA378-AOIS	
Image sensor	All pixel scan CMOS image sensor		
	Image size	Type 1/2.3 (Diagonal 7.857mm)	
	Module effective pixels	4056 (H) x 3040 (V) 12.33M pixels	
Lens	Lens construction	6 Lenses	
	Focal length	4.52mm (35mm equivalent: 25mm)	
	F value	2.0	
	Angle of view (INF position)	Horizontal/Vertical/Diagonal	68.8° / 54.3° / 81.1°
	Focus range	100mm to infinity with auto focus (Resolution is not guaranteed for all focus range.)	
Focus control	Feedback control VCM linear motor		
OIS	PWM control OIS		
Output	MIPI CSI-2 (4 lane) RAW Data 12/10/8 COMP8 output		
	Frame rate	Capture mode (all images)	Max. 60 frame/sec.
		4K2K movie (16:9)	Max. 60 frame/sec.
		Full HD movie (16:9)	Max. 240 frame/sec.
I/O	Image signal	MIPI CSI2 2/4 lane AF/OIS driver	
	Control signal	I2C interface for image sensor and AF/OIS driver	
	Number of terminals	34 pins	
others	Power supply	Image sensor (analog)	2.8 ± 0.1 V
		Image sensor (digital)	1.05 ± 0.1 V
		I/O	1.8 ± 0.1 V
		Actuator	2.8 ± 0.1 V
	Operating temperature	T operation	-10 ~ +60 °C
	Storage temperature	T storage	-30 ~ +80 °C
	Recommended operating temperature	T specification	0 ~ +45 °C
	Package dimensions (All)	13.1mm (W) x 21.0mm (D) x 5.9mm (H)	
Package dimensions (Module)	13.1mm (W) x 12.5mm (D) x 5.9mm (H) (Camera head block /without tolerance)		



CA378-AOIS by Raspberry Pi3

Image size : 3968x3008
 ISO sensitivity : ISO800
 Shutter speed : 1 sec.
 HDR : 1/16

-Product names mentioned here are registered trademarks of their respective owners.
 -Please note that certain information may have changed since the date of description.