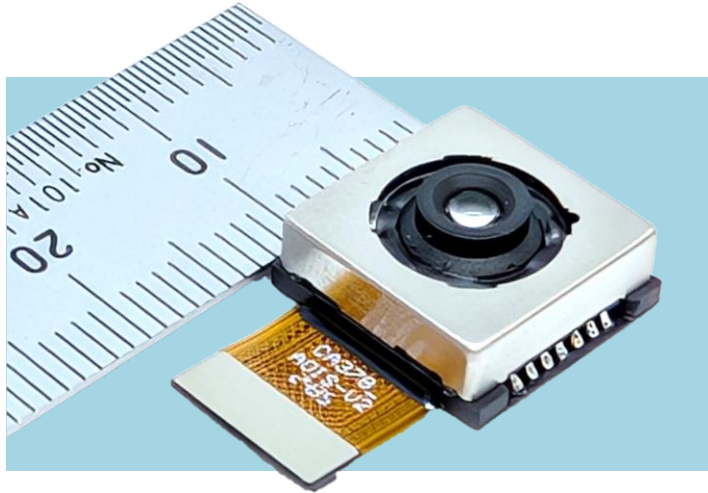


Small footprint for mobile use

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 μ m pixel size) through the pixel size expanded to 1.55 μ 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 5.95mm (H), 34pins of terminals

Summary of Specifications		CA378-AOIS-V2		
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	5 Lenses		
	Focal length	4.266mm (35mm equivalent: 23mm)		
	F value	1.8		
	Angle of view (INF position)	Horizontal/Vertical /Diagonal	68.19° / 51.06° / 85.18°	
	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 ~ +55 °C	
	Storage temperature	T storage	-30 ~ +75 °C	
	Recommended operating temperature	T specification	0 ~ +45 °C	
	Package dimensions (All)	13.1mm (W) x 21.00mm (D) x 5.95mm (H)		
Package dimensions (Module)	13.1mm (W) x 12.5mm (D) x 5.95mm (H) (Camera head block /without tolerance)			



CA378-AOIS by Raspberry Pi4

Image size : 4056x3040
 Brightness : 850lux
 Work distance : 430mm

*Please note that the specifications listed in this document are subject to change without notice due to improvements.

