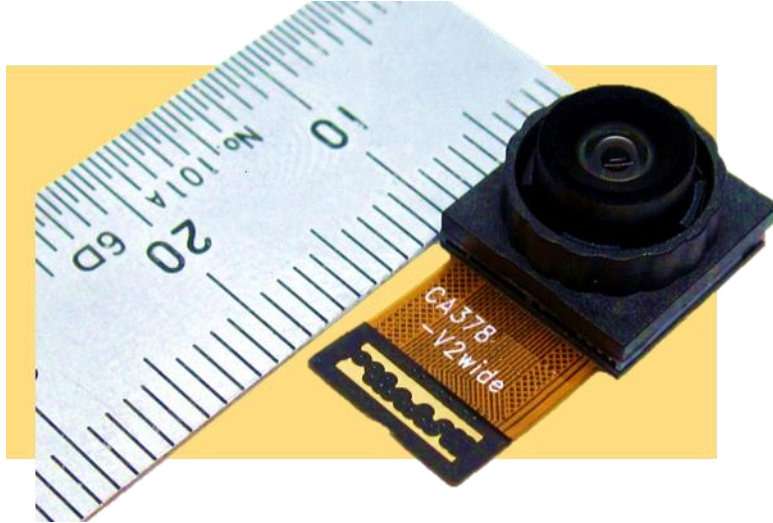


Small footprint for mobile use

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.

Single focus lens (120° wide angle of view), with filter

This model has a wide angle of view and receives visible light with an infrared cut filter.

Head size: 10.8mm(W) x 10.8mm(D) x 7.45mm(H), 34pin connector installed on flexible cable

| 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 | 6 Lenses | | |
| | Focal length | 2.75mm (35mm equivalent: 12.7mm) | | |
| | F value | 2.2 | | |
| | Angle of view | Horizontal/Vertical /Diagonal | 103.5° / 67.5° / 120° | |
| | Focus range | 100mm to infinity (Resolution is not guaranteed for all focus range.) | | |
| Focus control | - | | | |
| OIS | - | | | |
| Output | MIPI CSI-2 (D-PHY) 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 | | |
| | Control signal | I2C interface for image sensor | | |
| | 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 | - | |
| | Operating temperature | T operation | -10 ~ +60 °C | |
| | Storage temperature | T storage | -30 ~ +80 °C | |
| | Recommended operating temperature | T specification | 0 ~ +50 °C | |
| | Package dimensions (All) | 10.8mm (W) x 20.15mm (D) x 7.45mm (H) | | |
| Package dimensions (Module) | 10.8mm (W) x 10.8mm (D) x 7.45mm (H) (Camera head block /without tolerance) | | | |



CA378-V2wide 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.

