

## KLT-OIS-FF-IMX179-C V1.0

**Sony IMX179 MIPI Interface Mise au point fixe 8MP Module de caméra  
Micro stabilisateur de cardan, Plateforme de stabilisation optique d'image (OIS)**



<b>Module de caméra No.</b>	<b>KLT-OIS-FF-IMX179-C V1.0</b>
<b>Capteur d'image</b>	IMX179
<b>Stabilisateur</b>	Micro stabilisateur de cardan(MGS)
<b>EFL</b>	3.05 mm
<b>F.NO</b>	2.2
<b>Pixel</b>	3280 x 2464
<b>Angle de vue</b>	87.6°
<b>Type d'objectif</b>	1/3.2 pouce
<b>Dimensions de l'objectif</b>	19.00 x 19.00 x 9.9 mm
<b>Taille du module</b>	39.00 x 19.00 mm
<b>Type de module</b>	Mise au point fixe
<b>Interface</b>	MIPI
<b>Modèle d'objectif IMT</b>	IMT-1A65H005-N

**Référence du connecteur d'accouplement. BAF04-30083-0500**



Connecteur d'accouplement sur la carte principale. Vendu séparément.

# OIS Camera Modules

(OIS = Optical Image Stabilization Platform)

## World's Smallest Gimbal Stabilizer



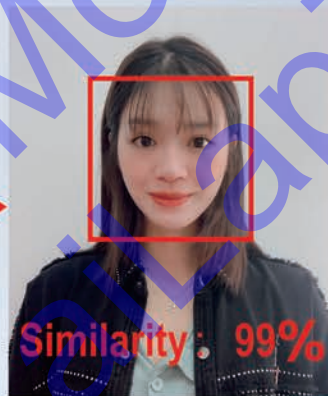
### Core Technologies:

- MGS (micro gimbal stabilizer)  
(The lens and image sensor tilt together)
- $\pm 5$ deg max. compensation angle  
(More than enough for walking and jogging)
- Innovative anti-shaking solutions with 10+ patents
- Integrated design, including a gyroscope and an MGS driver IC

EIS:



MGS:



Face recognition success rate



MGS can significantly reduce blur especially in low-light conditions, and thus support dynamic face recognition and other emerging technologies

### Main Advantages:

- Support horizontal FOV over 100deg
- Support all-glass lens
- 2m+ drop test
- Easy to use
- One-stop anti-shaking solution provider
- Light weight down to 5g
- Small size down to 19×19mm
- Competitive price



Ordering Models



KLT-OIS-USB1A-IMX258 V1.0



KLT-OIS-AF-IMX258-C V1.0

**MGA190 series:**

Size: 19×19×9.9mm  
 Auto Focus MGS  
 Largest FOV: 100deg  
 Max. compensation angle: ±5deg  
 Weight: 5g  
 Support a wide variety of lenses and image sensors  
 Supported sensors:  
 OmniVision OV5640, Sony IMX179 & IMX258

**MGF250 series:**

Size: 25x25x15mm  
 Fixed Focus MGS  
 Largest FOV: 140deg  
 Max. compensation angle: ±5deg  
 Weight: 28g  
 Support a wide variety of lenses and image sensors  
 Supported sensors:  
 Onsemi AR1335, OmniVision OV2718 & OV4689



KLT-OIS-FF-OV4689 V7.0A

Module	Resolution	Sensor	Focus	DFOV
KLT-OIS-AF-IMX258-C V1.0	13 MP OIS	IMX258-C	Auto	87.6
KLT-OIS-USB1A-IMX258 V1.0	13 MP OIS	IMX258	Auto	87.6
KLT-OIS-FF-OV4689 V7.0A	4 MP OIS	OV4689	Fixed	122

**Product Applications:**



AI face recognition



Body worn camera



Robot



AR/VR smart glasses



Sport DV

## [Product Brief]

Ver.1.0

# IMX179

## Diagonal 5.7mm (Type 1/3.2) CMOS Image Sensor with Square Pixel for Color Cameras

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### Description

The IMX179 is a diagonal 5.7 mm (Type 1/3.2) CMOS active pixel type image sensor with a square pixel array and 8.08M effective pixels. This chip operates with three power supplies, analogue 2.7 V, digital 1.2 V, and IF 1.8 V, and has low power consumption. High sensitivity, low dark current, and no smear are achieved through the adoption of R,G, and B primary color pigment mosaic filters. This chip features an electronic shutter with variable charge-storage time.

In addition, this product is designed for use in cellular phone and tablet PC. When using this for another application, Sony does not guarantee the quality and reliability of product.

Therefore, don't use this for applications other than cellular phone and tablet PC. Consult your Sony sales representative if you have any questions.

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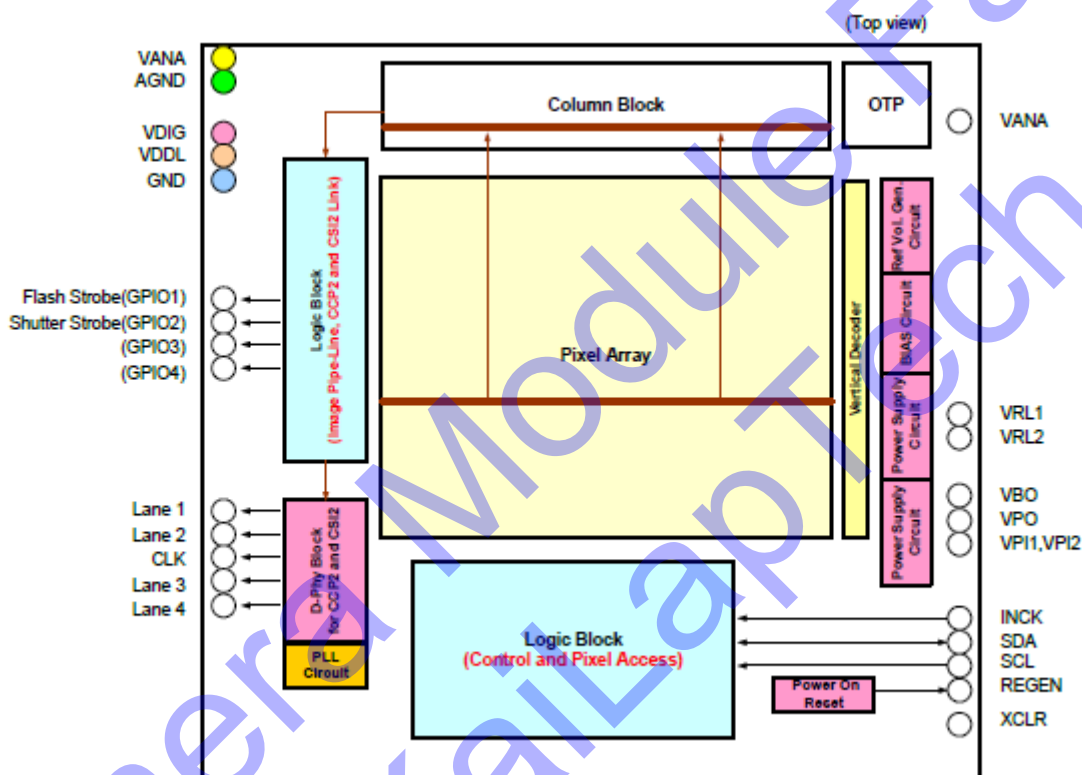
### Functions and Features

- ◆ CMOS active pixel type dots
- ◆ 2-wire serial communication circuit on chip
- ◆ CSI2 serial data output
- ◆ Timing generator, H and V driver circuits on chip
- ◆ CDS/PGA on chip
- ◆ 10-bit A/D converter on chip
- ◆ Automatic optical black (OB) clamp circuit on chip
- ◆ PLL on chip (rectangular wave/sine wave)
- ◆ High sensitivity, low dark current, no smear
- ◆ Excellent anti-blooming characteristics
- ◆ Variable-speed shutter function (1H units)
- ◆ R, G, B primary color pigment mosaic filters on chip
- ◆ Max. 30 frame/s in all-pixel scan mode
- ◆ Pixel rate: >260 MHz (>30 frame/s at All-pixel mode)

Device Structure

- ◆ CMOS image sensor
- ◆ Image size : Diagonal 5.7 mm (Type 1/3.2)
- ◆ Total number of pixels : 3288 (H) × 2512 (V) approx. 8.26M pixels
- ◆ Number of effective pixels : 3280 (H) × 2464 (V) approx. 8.08M pixels
- ◆ Chip size : 6.18 mm (H) × 5.85 mm (V)
- ◆ Unit cell size : 1.4µm (H) × 1.4µm (V)
- ◆ Substrate material : Silicon

Block Diagram



\* Exmor R is a trademark of Sony Corporation. The Exmor R is a Sony's CMOS image sensor with significantly enhanced imaging characteristics including sensitivity and low noise by changing fundamental structure of Exmor™ pixel adopted column parallel A/D converter to back-illuminated type.

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Application circuits shown, if any, are typical examples illustrating the operation of the devices. Sony cannot assume responsibility for any problems arising out of the use of these circuits.