

**KLT-OIS-FF-OV4689 V7.0A**

**OmniVision OV4689 Stabilisation optique de l'image MGS MIPI Interface Mise au point fixe 4MP Module de caméra  
Micro stabilisateur de cardan, Plateforme de stabilisation optique d'image (OIS)**



<b>Module de caméra No.</b>	<b>KLT-OIS-FF-OV4689 V7.0A</b>
<b>Capteur d'image</b>	OV4689
<b>Stabilisateur</b>	Micro stabilisateur de cardan(MGS)
<b>EFL</b>	3.56 mm
<b>F.NO</b>	2.8
<b>Pixel</b>	2688 x 1520
<b>Angle de vue</b>	122°
<b>Type d'objectif</b>	1/3 pouce
<b>Dimensions de l'objectif</b>	25.00 x 25.00 x 16.11 mm
<b>Taille du module</b>	80.00 x 25.00 mm
<b>Type de module</b>	Mise au point fixe
<b>Interface</b>	MIPI

**Référence du connecteur d'accouplement. AXE534124**



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

# OIS Camera Modules

(OIS = Optical Image Stabilization Platform)

## World's Smallest Gimbal Stabilizer



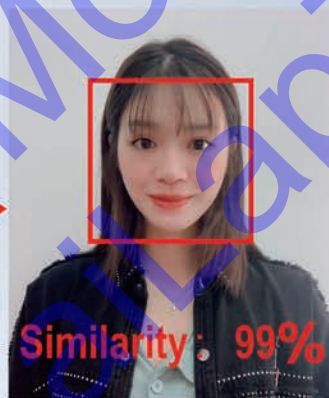
### Core Technologies:

- 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

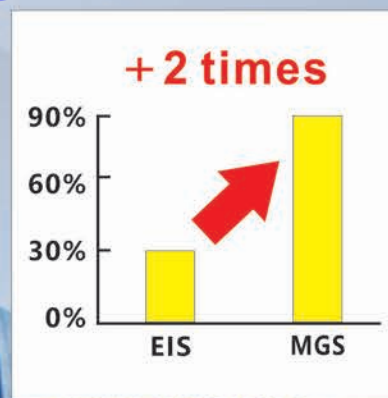
EIS:



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

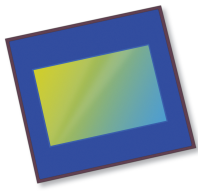


AR/VR smart glasses



Sport DV





# OV4689 4MP product brief



## High Frame Rate 4-Megapixel CameraChip™ Sensor with Excellent Low-Light Sensitivity and High Dynamic Range for Security Applications

lead free  
available in  
a lead-free  
package

The OV4689 is a high performance 4-megapixel CameraChip sensor in a native 16:9 format designed for next-generation surveillance and security systems. The sensor utilizes an advanced 2-micron OmniBSI-2™ pixel to provide best-in-class low-light sensitivity and high dynamic range (HDR).

The 1/3-inch OV4689 can capture full-resolution 4-megapixel high definition (HD) video at 90 frames per second (fps), 1080p HD at 120 fps, and binned 720p HD at 180 fps. The sensor's high frame rates enable crisp, clean image and video capture of fast moving objects.

The OV4689 provides timing to capture full-resolution HDR using frame-based "sequential HDR" or line-based "staggered HDR", and quarter resolution HDR using

"alternate row HDR". The benefits of using "staggered HDR" compared to "sequential HDR" are significant reduction in motion artifacts and lower memory requirement for host processing. These modes produce high quality full-resolution 4-megapixel HDR video under extreme variations of bright and dark conditions, ensuring high contrast and excellent scene reproduction.

The OV4689 features a high-speed 4-lane MIPI serial output interface to facilitate the required high data transfer rate. The OV4689 is available in a chip scale package (CSP).

Find out more at [www.ovt.com](http://www.ovt.com).



OmniVision



