

JAL-KM9-OVM6211 V1.0

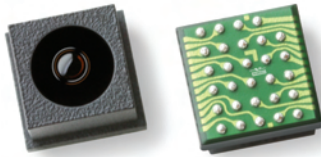
**OmniVision OVM6211 MIPI Interface Foco Fixo 400x400 Metade VGA
Módulo de Câmera**



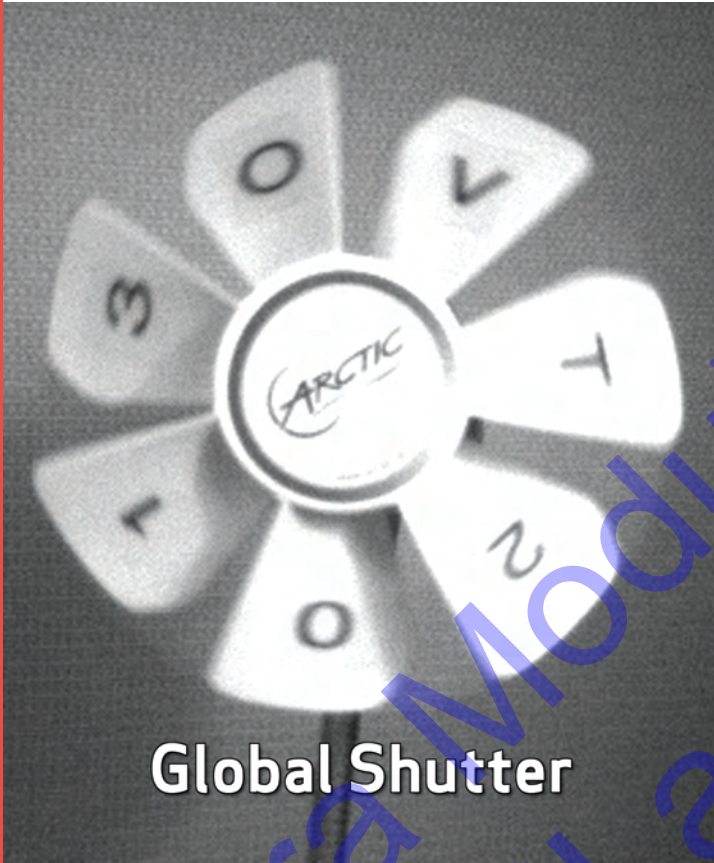
Módulo de câmara No.	JAL-KM9-OVM6211 V1.0
Sensor de imagem	OVM6211
EFL	1.68 mm
F.NO	3.1
Pixel	400 x 400
Ângulo de visão	50°
Tipo de lente	1/10.5 polegada
Dimensões da lente	3.23 x 3.23 x 2.76 mm
Tamanho do Módulo	30.00 x 5.00 mm
Tipo de Módulo	Foco Fixo
Interface	MIPI

Acasalamento Parte conector No. AXT524124

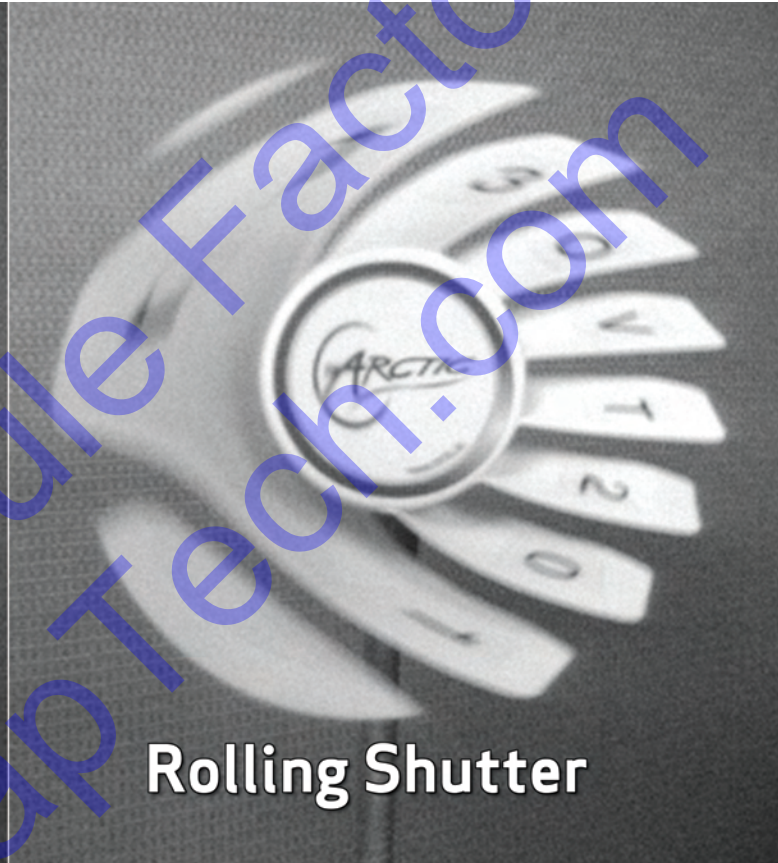
Conector de acoplamento na placa principal. Vendido separadamente.



OVM6211 400x400 product brief



Global Shutter



Rolling Shutter

Compact Global Shutter CameraCubeChip™ Brings Computer Vision to Mobile Devices, Notebooks and Wearables



available in a lead-free package

OmniVision's high performance OVM6211 offers a number of advanced features, including gesture recognition, eye tracking and motion detection in the industry's smallest global shutter package. Its advanced functionality, easy adoption and compact form-factor make it an ideal camera solution for advanced space-constrained devices, such as smartphones, tablets, notebooks and wearables.

Featuring a 3-micron OmniPixel3-GS™ global shutter pixel, the OVM6211 is capable of capturing full resolution (400 x 400 pixels) video at 120 fps and features two low-power modes: light sensing mode and ultra-low power mode.

The OVM6211 CameraCubeChip™ will be available in two packages. The OVM6211-RADA is intended for human interface systems including eye tracking and will have a narrow field of view (FOV) at approximately 50 degrees. The OVM6211-RAHA is a complementary product intended for applications including gesture recognition and wearable devices and uses a lens with FOV wider than 90 degrees.

Find out more at www.ovt.com.



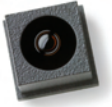
Applications

- Cellular Phones
- Tablets
- Digital Video Camcorders (DVC)
- Security/Surveillance
- PC Multimedia
- Gaming

Product Features

- 3 μm global shutter pixel
- programmable SCCB device ID
- automatic black level calibration (ABLC)
- one-lane MIPI serial output interface
- programmable controls for:
 - frame rate
 - mirror and flip
 - cropping and windowing
- embedded 128 bits of one-time programmable (OTP) memory for part identification, etc.
- supports output formats: 8/10-bit RAW
- two on-chip phase lock loop (PLL)
- programmable I/O drive capability
- supports images sizes:
 - 400 x 400
 - 200 x 200
 - 100 x 100
- built-in 1.5V regulator for core
- PWM
- fast mode switching
- built-in strobe control
- supports horizontal and vertical 2:1 and 4:1 monochrome subsampling
- ultra low power mode for ambient light sensor
- supports 2x2 monochrome binning
- standard serial SCCB interface

OVM6211



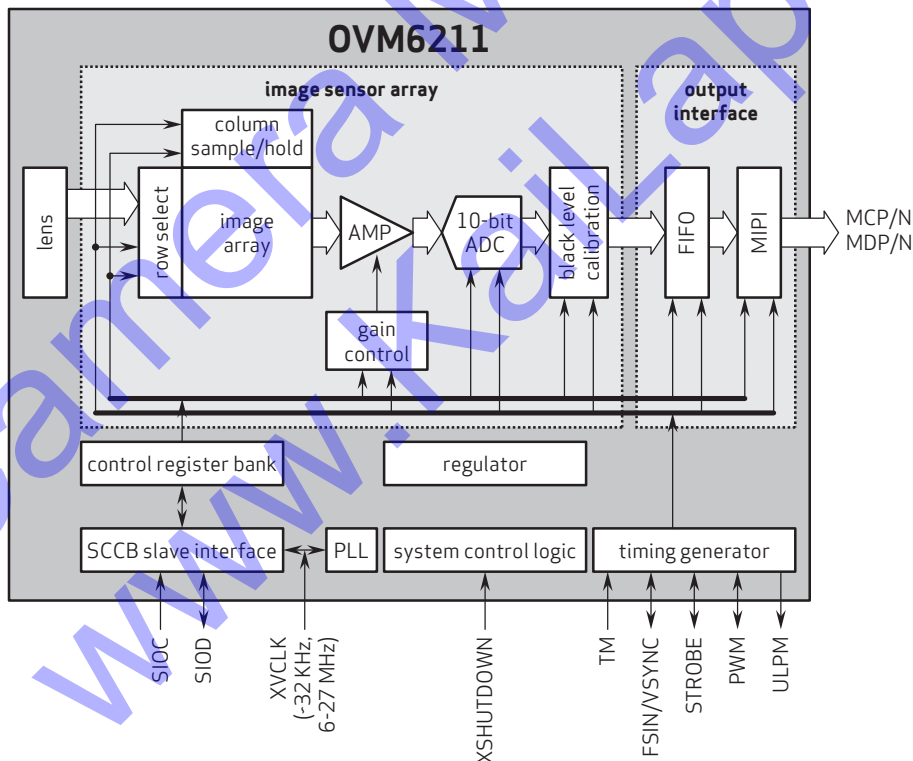
Ordering Information

- OVM6211-RADA** (B&W, lead-free, CameraCubeChip™ with black coating, 50° FOV)
- OVM6211-RAHA** (B&W, lead-free, CameraCubeChip™ with black coating, 90° FOV)

Product Specifications

- active array size:** 400 x 400
- f no.:**
 - OVM6211-RADA: 3.1
 - OVM6211-RAHA: 2.4
- power supply:**
 - analog: 2.6 - 3.0V
 - core: 1.5 VDC $\pm 5\%$
 - I/O: 1.7 - 3.0V
- power requirements:**
 - active: 85 mW @ 120 fps
 - standby: 15 μA for AVDD, 40/700 μA for DOVDD with/without input clock
 - XSHUTDOWN: 5 μA for AVDD, 5 μA for DOVDD
- temperature range:**
 - operating: -30°C to +70°C junction temperature
 - stable image: 0°C to +50°C junction temperature
- output formats:** 8/10-bit RAW
- optical format:** 1/10.5"
- input clock frequency:** 6 - 27 MHz
- scan mode:** progressive
- focal length:**
 - OVM6211-RADA: 1.681 mm
 - OVM6211-RAHA: 0.776 mm
- maximum image transfer rate:**
 - 400x400: 120 fps
 - 200x200: 220 fps
 - 100x100: 380 fps
- max S/N ratio:** 37.5 dB
- dynamic range:** 66.5 dB @ 8x gain
- maximum exposure interval:** 434 x t_{row}
- pixel size:** 3 μm x 3 μm
- image area:** 1248 μm x 1248 μm

Functional Block Diagram



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