

CMOS CAMERA MODULES



your BEST camera module partner

KLT-B6K-OV8865-A18

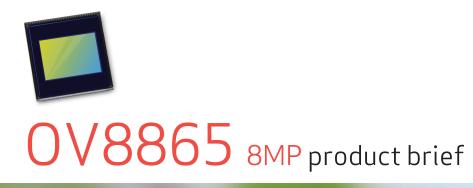
OmniVision OV8865 MIPI Interface Auto-foco Flash LED 8MP Módulo de Câmera



Módulo de câmara No.	KLT-B6K-OV8865-A18
Sensor de imagem	OV8865
EFL	3.85 mm
F.NO	2.2
Pixel	3264 x 2448
Ângulo de visão	72.9°
Tipo de lente	1/3.2 polegada
Dimensões da lente	8.5 x 8.5 x 5.38 mm
Tamanho do Módulo	54.5 x 21 mm
Tipo de Módulo	Auto-foco
Adicionar	Flash LED
Interface	MIPI
Modelo de lente IMT	IMT-1A65H003-N



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High-Performance, Low-Power 8-Megapixel Image Sensor for Mainstream Smartphones and Tablets



OmniVision's OV8865 is a low-power high-performance 8-megapixel camera solution for mainstream smartphones and tablets. Utilizing an improved 1.4-micron OmniBSI-2™ pixel, the OV8865 delivers best-in-class pixel performance in a smaller, more power efficient package compared to the previous generation OV8835 sensor.

The OV8865 offers a number of performance improvements including a five percent improvement in dynamic range and a 50 percent reduction in dark current, resulting in superior high- and low-light images. Furthermore, the OV8865 consumes considerably less power than the OV8835, achieving the sub 200 mW benchmark preferred by high-end mobile device manufacturers.

The 1/3.2-inch OV8865 supports an active array of 3264×2448 (8-megapixels) operating at 30 frames per second (fps) for high-speed photography. The sensor is also capable of capturing 1080p high-definition (HD) video at 30 fps or 720p at 60 fps.

The OV8865 fits into an industry standard $8.5 \times 8.5 \times 5$ mm package.

Find out more at www.ovt.com.





Applications

- Cellular Phones
- PC Multimedia

■ Tablets

Product Features

- programmable controls for frame rate, mirror and flip, cropping, and windowing
- static defective pixel canceling
- supports output formats: 10-bit RAW RGB (MIPI)
- supports horizontal and vertical subsampling
- supports images sizes: 3264x2448, 3264x1836, 2816x1584, 1632x1224, 1408x792

- automatic black level calibration (ABLC) supports 2x2 binning, re-sampling filter
 - standard serial SCCB interface
 - up to 4-lane MIPI serial output interface
 - embedded 1536 bytes one-time programmable (OTP) memory for part identification, etc.
 - two on-chip phase lock loops (PLLs)
 - programmable I/O drive capability
 - built-in temperature sensor

OV8865



■ 0V08865-G04A-1D

(color, chip probing, 200 µm backgrinding, reconstructed wafer with good die)

Product Specifications

- active array size: 3264 x 2448
- power supply:

- core: 1.2V analog: 2.8V I/O: 1.8V, 2.8V
- power requirements: active: 196 mW (full resolution @ 30 fps) XSHUTDOWN: 5 µW

- temperature range:

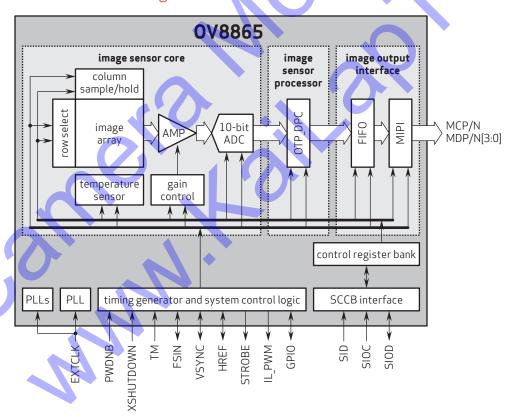
 operating: -30°C to +85°C junction temperature
- stable image: 0°C to +60°C junction temperature
- output formats: 10-bit RAW RGB data

lens chief ray angle: 32.2° non-linear

- lens size: 1/3.2"

- input clock frequency: 6 27 MHz
- max S/N ratio: 36.7 dB
- dynamic range: 68.8 dB
- maximum image transfer rate: 30 fps
- sensitivity: 940 mV/lux-sec
- scan mode: progressive
- pixel size: 1.4 µm x 1.4 µm
- dark current: 20 e-/sec @ 60°C junction temperature
- image area: 4614.4 μm x 3472 μm
- die dimensions: 5850 µm x 5700 µm

Functional Block Diagram



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