

JAL-OV8865-E08B

**OmniVision OV8865 MIPI Interfaccia Messa a fuoco automatica 8MP
Modulo telecamera**



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|----------------------------------|--------------------------|
| Modulo telecamera n. | JAL-OV8865-E08B |
| Sensore d'immagine | OV8865 |
| EFL | 3.85 mm |
| F.NO | 2.2 |
| Pixel | 3264 x 2448 |
| Vista ad angolo | 72.9° |
| Tipo di lente | 1/3.2 pollice |
| Dimensioni dell'obiettivo | 8.50 x 8.50 x 5.40 mm |
| Dimensione del modulo | 17.50 x 9.60 mm |
| Tipo di modulo | Messa a fuoco automatica |
| Interfaccia | MIPI |

Connettore di accoppiamento Codice. 24-5804-030-000-829



Connettore di accoppiamento sulla scheda principale. Venduto separatamente.



OV8865 8MP product brief



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



available in a lead-free package

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 x 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 x 8.5 x 5 mm package.

Find out more at www.ovt.com.



Applications

- Cellular Phones
- Tablets
- PC Multimedia

Product Features

- automatic black level calibration (ABLC)
- 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
- 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



Ordering Information

- OV8865-G04A-1D (color, chip probing, 200 μm backgrounding, 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 size: 1/3.2"
- lens chief ray angle: 32.2° non-linear
- 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



4275 Burton Drive
Santa Clara, CA 95054
USA

Tel: +1 408 567 3000
Fax: +1 408 567 3001
www.ovt.com

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