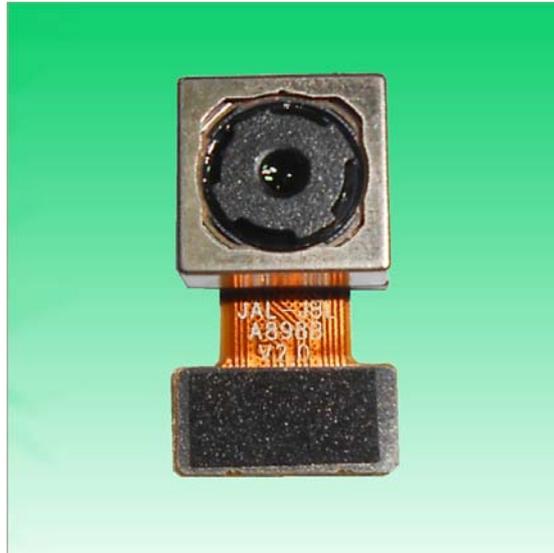
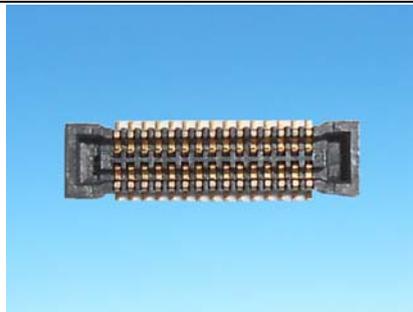


JAL-OV8865-A898B V2.0**OmniVision OV8865 MIPI Interface Auto Focus 8MP Camera Module**

Camera Module No.	JAL-OV8865-A898B V2.0
Image Sensor	OV8865
EFL	3.37 mm
F.NO	2.8
Pixel	3264 x 2448
View Angle	70°
Lens Type	1/3.2 inch
Lens Dimensions	8.5 x 8.5 x 5.4 mm
Module Size	16.55 x 9 mm
Module Type	Auto Focus
Interface	MIPI

Mating Connector Part No. 24-5804-030-000-829

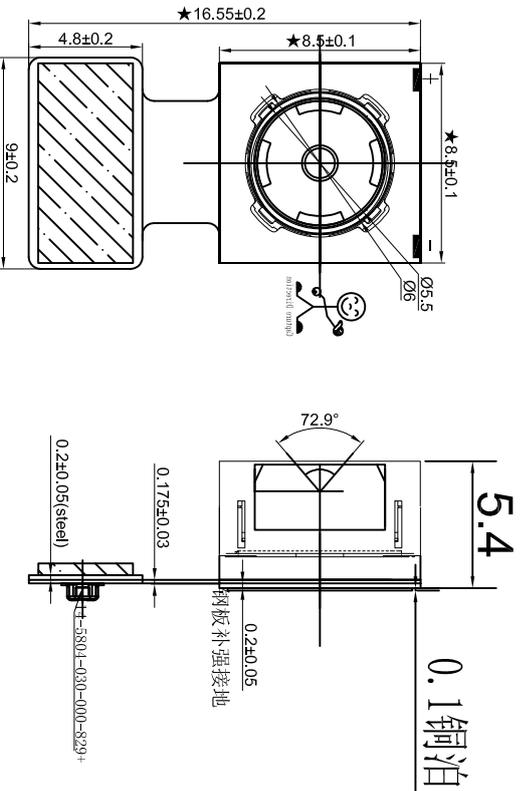
Mating Connector On Main Board. Sold Separately.

ROHS

产品变更 详细变更事项

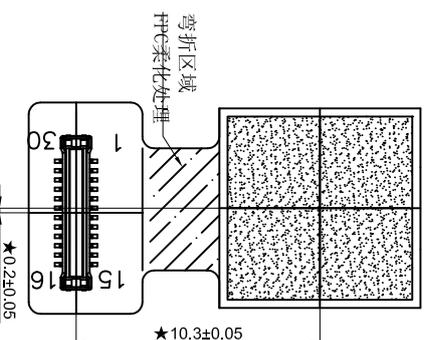
(1)	
(2)	
(3)	

NO SIGNAL
1 AFGND
2 VAF
3 DVVDD1.8V
4 DOVDD1.8V
5 NC
6 AGND
7 AVDD2.8V
8 DGND
9 I2C-SDA
10 I2C-SCL
11 RST
12 PWDN1
13 DGND
14 MCLK
15 DGND
16 DP3
17 DN3
18 DGND
19 DP2
20 DN2
21 DGND
22 DP1
23 DN1
24 DGND
25 CLKP
26 CLKN
27 DGND
28 DP0
29 DN0
30 DGND

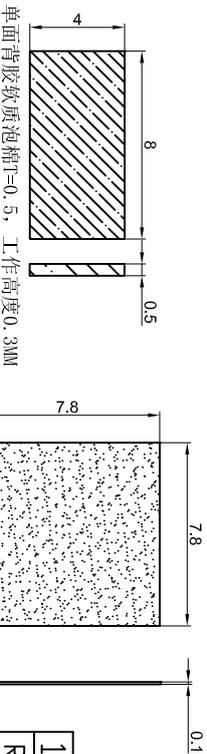


TOP VIEW

SIDE VIEW



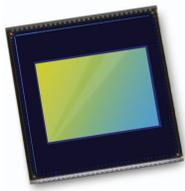
BOTTOM VIEW



后摄	
焦距 (F#)	3.85
光圈 (F. NO)	2.2
视场角 (View Angle)	72.9°
畸变 (Distortion)	< 1.5%
镜头类型 (Lens Size)	1/3.2 inch
像素 (Array Size)	3560*2048
感光芯片 (Chip Type)	OV8865

SELECT level dim.	A	B	C	D
~ 5	±0.03	±0.05	±0.08	±0.10
5~10	±0.05	±0.08	±0.10	±0.15
10~50	±0.08	±0.10	±0.15	±0.20
50~100	±0.10	±0.15	±0.20	±0.25
100~	±0.10%	±0.15%	±0.20%	±0.30%

1/0	All	First Release	Peter	16-07-13
REV.	Zone	Description	Approved	Date
佳立数码(深圳)有限公司 Kai Lap Technologies Group Ltd				
Designed By:	peter		16-07-13	
Checked By:	Feng Liu		2014-5-10	
Approved By:	Aouly_Yan		2014-5-10	
Client Name:		A898B		
Model Name:		JAL-OV8865-A898B V2.0		
Projection Type:	Unit:	Material:		
Third Angle	mm			
Scale:	1:1	Sheet:	1 of 1	Version:
				1/0



OV8865 8MP product brief



available in
a lead-free
package

Low-Power and Compact 8-Megapixel CameraChip™ Sensor with Improved Pixel Performance for Smartphones and Tablets

OmniVision's OV8865 is a low-power high-performance 8-megapixel camera solution for next-generation 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.

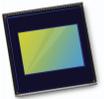
Applications

- Cellular Phones
- PC Multimedia
- Tablets

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



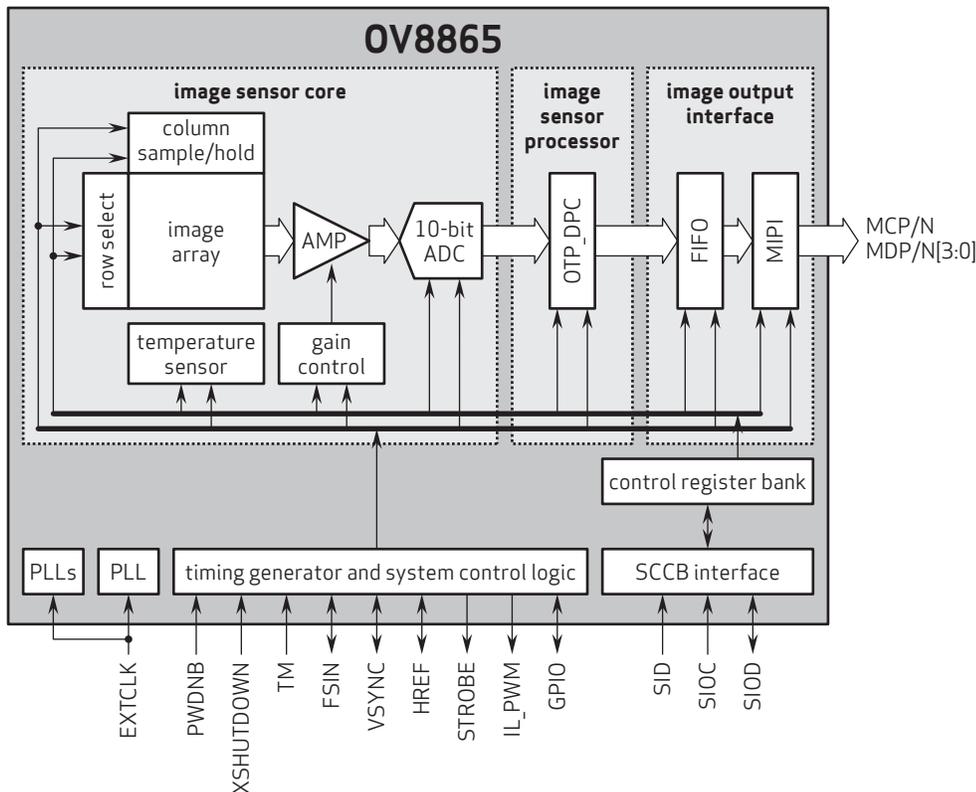
Ordering Information

- OV08865-G04A-1D (color, chip probing, 200 μ m backgrinding, reconstructed wafer with good die)

Product Specifications

- active array size: 3264 x 2448
- input clock frequency: 6 - 27 MHz
- max S/N ratio: 36.7 dB
- dynamic range: 68.8 dB
- maximum image transfer rate: 30 fps
- scan mode: progressive
- pixel size: 1.4 μ m x 1.4 μ m
- dark current: 20 e⁻/sec @ 60°C junction temperature
- image area: 4614.4 μ m x 3472 μ m
- die dimensions: 5850 μ m x 5700 μ m
- lens chief ray angle: 32.2° non-linear
- 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 μ W
- 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
- sensitivity: 940 mV/lux-sec

Functional Block Diagram



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USA

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www.ovt.com

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OmniVision