



# AR0261: CMOS Image Sensor, 2 MP, 1/6"



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ON Semiconductor's AR0261 is a 2-megapixel sensor delivering native 1080p resolution with exceptional image quality and meets strict form factor requirements (z-height less than 3.5mm) for ultra-thin, full HD video applications within the Mobile, Tablet and Notebook market. This sensor has a 1/6-inch optical format and a new 1.4-micron pixel featuring ON Semiconductor A-PixHS(tm) technology to provide excellent low-light performance. The new sensor provides HD video at 1080p/60fps or 720p/60fps critical for sharp, clear video capture.

## Features

- 2 MP CMOS sensor with advanced 1.4um pixel BSI technology
- Data interfaces: 1 and 2 lane mobile industry processor interface (MIPI)
- Bit-depth compression available for MIPI Interface:10-8 and 10-6 to enable lower bandwidth receivers for full frame rate applications
- 3D synchronization controls to enable stereo video capture
- Interlaced multi-exposure readout enabling High Dynamic Range (HDR) still and video applications
- 8.8kbits one-time programmable memory (OTPM) for storing shading correction coefficients and module information
- Programmable controls: gain, horizontal and vertical blanking, auto black level offset correction, frame size/rate, exposure, left-right and top-bottom image reversal, window size, and panning
- On-chip dual phase-locked loop (PLL) oscillator structure for improved EMI characteristics
- Superior low-light performance
- Low dark current
- Simple two-wire serial interface
- On-chip lens shading correction
- Support for external mechanical shutter
- Support for external LED and xenon

## Applications

- Mobile
- Consumer
- Medical

## End Products

- Smart Phone
- Digital Still camera
- Wearable devices

## Technical Documentation & Design Resources

Videos (1)

### Availability & Samples Specifications Application Diagram

Product	Status	Compliance	Description	Package		MSL*	Container		Budgetary Price/Unit
				Type	Case Outline		Type	Qty.	
AR0261CSSC30SMD20	Active	Pb-free Halide free	CMOS Image Sensor, 2 MP, 1/6"			NA	MTRFM	1	Contact Sales Office

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

## Previously Viewed Products

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## Associated Products

- Do you also need [LDO Regulators & Linear Voltage Regulators?](#)
- Do you also need [EEPROM Memory?](#)
- Do you also need [Image Processors?](#)

## Design Support

- [Technical Documentation](#)
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## Featured Video

Features and Set-up of the Mainstream CMOS Image Sensor Demo Boards



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