

AR0237AT

CMOS Image Sensor, Digital, 2.1 MP/Full HD, 1/2.7-inch

Product Overview

For complete documentation, see the data sheet.

The AR0237AT from ON Semiconductor is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928 (H) × 1088 (V). It captures images in either linear or high dynamic range modes, with a rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two-wire serial interface. The AR0237AT produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video.

Features

- Superior Low-light Performance
 - Latest 3.0 m pixel with ON Semiconductor DR-Pix Technology with Dual Conversion Gain
 - Full HD Support at Up to 1080p 60 fps for Superior Video Performance
 - Linear or High Dynamic Range Capture
 - Supports Line Interleaved T1/T2 Readout to Enable HDR Processing in ISP Chip
 - Support for External Mechanical Shutter
 - On-chip Phase-locked Loop (PLL) Oscillator
 - Integrated Position-based Color and Lens Shading Correction
 - Slave Mode for Precise Frame-rate Control
 - Stereo/3D Camera Support
- For more features, see the data sheet

Applications

- Automotive Surround View
- Automotive Scene Viewing, Including DVR
- High Dynamic Range Imaging

End Products

- Automotive

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0237ATSC12 XUEA0-DPBR		<div><div>A</div><div>P</div><div>Pb</div><div>H</div></div>	Active	CMOS	2.1		1/2.7 inch				RGB	IBGA-80
AR0237ATSC12 XUEA0-DRBR		<div><div>A</div><div>P</div><div>Pb</div><div>H</div></div>	Active	CMOS	2.1		1/2.7 inch				RGB	IBGA-80