

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 is a 1/2.7inch CMOS digital image sensor with an activepixel array of 1928 (H) × 1088 (V). It captures images in either linear or high dynamic range modes, with a rollingshutter readout. It includes sophisticated camera functions such as inpixel 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 twowire 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 μm pixel with 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
- Surround View Camera
- DVR

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			Active	CMOS	2.1		1/2.7 inch				RGB	IBGA-80
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