



Product Overview

AR0237: 2 MP 1/2.7" CMOS Image Sensor

For complete documentation, see the [data sheet](#)

Product Description

The AR0237 is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928 (H) x 1088 (V). It captures images in either linear or high dynamic range modes with a rolling-shutter readout, and 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, and is programmable through a simple two-wire serial interface. The AR0237 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
- DR-PIX (TM) technology with Dual Conversion Gain
- Full HD support at up to 1080p 60 fps for superior video performance
- Linear or high dynamic range capture
- On-chip phase-locked loop (PLL) oscillator
- Supports line interleaved T1/T2 readout to enable HDR processing in ISP chip
- Support for external mechanical shutter
- 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

- Video surveillance
- 1080p60 (Surveillance) video applications
- High dynamic range imaging

End Products

- Surveillance camera

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0237C5SC00SHRA0-DR	Pb-free Halide free	NEW	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	HiSPi™	Bayer Color	PLCC-48
AR0237C5SC00SPRA0-DR	Pb-free Halide free	NEW	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Parallel	Bayer Color	PLCC-48
AR0237C5SC00SUEA0-DR	Pb-free Halide free	NEW	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Multi	Bayer Color	IBGA-80
AR0237C5SC12SHRA0-DR	Pb-free Halide free	NEW	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	HiSPi™	Bayer Color	PLCC-48
AR0237C5SC12SPRA0-DR	Pb-free Halide free	NEW	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Parallel	Bayer Color	PLCC-48
AR0237IRSH12SHRA0-DR-E	Pb-free Halide free	Active	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	HiSPi™	RGB-IR	PLCC-48
AR0237IRSH12SPRA0-DR-E	Pb-free Halide free	Active	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Parallel	RGB-IR	PLCC-48

For more information please contact your local sales support at www.onsemi.com

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