

## Product Overview

### AR0237SR: CMOS Image Sensor, 2.1 MP, 1/2.7" Lower Cost, Both RGB and RGBIR Version.

For complete documentation, see the data sheet.

The AR0237 is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928 (H) x 1088 (V). Support RGB and also RGBIR version. 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 FHD video, access control, mobile payment and in cabin monitor system.

### Features

- 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
- On-chip phase-locked loop (PLL) oscillator
- Supports line interleaved T1/T2 readout to enable HDR processing in ISP chip
- Integrated position-based color and lens shading correction
- Slave mode for precise frame-rate control
- Stereo/3D camera support
- Statistics engine
- Four-lane serial high-speed pixel interface (HiSPi)

For more features, see the data sheet

### Applications

- Video surveillance
- 1080p60 (Surveillance) video applications
- High dynamic range imaging
- Mechanical Shutter Free 1080p Camera
- Access Control Camera

### 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
AR0237SRSC12SHRA0-DR		Pb-free Halide free non AEC-Q and PPAP	Active	CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	HiSPi™	RGB	mPLCC48 11.43x11.43 (HiSPi)
AR0237SRSH12SHD20-E		Pb-free Halide free non AEC-Q and PPAP	Active									
AR0237SRSH12SHRA0-DR		Pb-free Halide free non AEC-Q and PPAP	NEW									mPLCC48 11.43x11.43 (HiSPi)
AR0237SRSH12SHRA0-DR-E		Pb-free Halide free non AEC-Q and PPAP	Active									mPLCC48 11.43x11.43 (HiSPi)

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