

AR0237SR

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

Product Overview

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 |
|-------------------------|-------------------|--------------------------------------|--------|------|------------|------------------|----------------|---|-----------------|------------------|-------|-------------------------------|
| AR0237SRSC12 SHRA0-DR | | <div><div>Pb</div><div>H</div></div> | Active | CMOS | 2.1 | 60 | 1/2.7 inch | Electronic Rolling and Global Reset Release | 3.0 x 3.0 | HiSPi™ | RGB | mPLCC 48 11.43x1 1.43 (HiSPi) |
| AR0237SRSH12 SHD20-E | | <div><div>Pb</div><div>H</div></div> | Active | | | | | | | | | |
| AR0237SRSH12 SHRA0-DR | | <div><div>Pb</div><div>H</div></div> | Active | | | | | | | | | mPLCC 48 11.43x1 1.43 (HiSPi) |
| AR0237SRSH12 SHRA0-DR-E | | <div><div>Pb</div><div>H</div></div> | Active | | | | | | | | | mPLCC 48 11.43x1 1.43 (HiSPi) |