AR0237 RGB-IR

CMOS Image Sensor, 2.1 MP, 1/2.7", RGB-IR

Product Overview

For complete documentation, see the data sheet.

The AR0237 RGB-IR 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 RGB-IR integrates the ability to take daytime color imaging and nighttime near-IR imaging in one sensor without the need for a mechanical IR-cut filter which can be loud, large, cause refocusing issues and expensive to maintain , and ideal for home security and other monitoring applications where lighting conditions can change drastically during the times when the camera is expected to work.

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
- Home security

End Products

- Surveillance camera
- Door Bell camera
- Baby camera
- Home security camera

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Part Electrical Specifications

Product	Status	Compilance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Family	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0237IRSH12SHRA0-DR	Obsolete		CMOS	2.1	60	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	HiSPi™	RGB-IR	-	PLCC-48	776AQ.PDF	4	260	JTRAY	1520
AR0237IRSH12SPRA0-DR	Lifetime		CMOS	2.1	30	1/2.7 inch	Electronic Rolling and Global Reset Release	3.0 x 3.0	Parallel	RGB-IR	-	PLCC-48	776AQ.PDF	4	260	JTRAY	1520

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