

AR0239

CMOS Image Sensor, 2.3 MP, 1/2.7"

Product Overview

For complete documentation, see the data sheet.

The AR0239 from ON Semiconductor is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1936 (H) × 1188 (V). It captures images in either linear or high dynamic range modes, with rolling-shutter readout. It 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. It is programmable through a simple two-wire serial interface. The AR0239 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

- 2.3Mp at 90 fps for Excellent Video Performance
- Small Optical Format (1/2.7inch)
- 1080p Mode for 16:9 Video
- Superior Lowlight Performance
- 3.0um large Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2/T3 Readout to Enable HDR Processing in ISP Chip at 1080P and 30fps
- Onchip Phaselocked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Framerate Control
- Data Interfaces: - HiSPi (SLVS) 4 Lanes - MIPI CSI2 4 Lanes - Parallel

For more features, see the data sheet





Applications

- Video Surveillance
- High Dynamic Range Imaging

End Products

- Security Camera
- Action camera
- Car DVR
- Body camera

Part Electrical Specifications

Product	Status	Compliance	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.
AR0239SRSC00 SUEA0-DP	Last Shipments		CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	-	IBGA-63	503 BQ, PDF	4	260	JTRAY	2600
AR0239SRSC00 SUEA0-DPBR	Last Shipments		CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	-	IBGA-63	503 BQ, PDF	4	260	JTRAY	2600
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