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AR0522: CMOS Image Sensor, 5.1 MP, 1/2.5", Near Infra-Red Enhancement



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The AR0522 is a 1/2.5-inch CMOS digital image sensor with an active-pixel array of 2592 (H) x 1944 (V). It captures images in either linear or high dynamic range modes with a rolling-shutter readout, and includes sophisticated camera functions such as binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range performance, with line interleaved T1/T2 read out to support off chip HDR in an ISP chip. The AR0522 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for wide range of applications.

Features

- 5 Mp at 60 fps for Excellent Video Performance
- Small Optical Format (1/2.5-inch)
- Color Filter Array : RGB and Monochrome
- 1440p Mode for 16:9 Video
- Superior Low-light Performance
- 2.2 m Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2 Readout to Enable HDR Processing in ISP Chip
- Support for External Mechanical Shutter
- On-chip Phase-locked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Frame-rate Control
- Data Interfaces: ♦ HiSPi (SLVS) – 4 Lanes ♦ MIPI CSI-2 – 4 Lanes
- Auto Black Level Calibration
- High-speed Configurable Context Switching
- Temperature Sensor
- Fast Mode Plus Compatible 2 Wire Interface
- Near Infra-Red Enhancement

Applications

- Video Surveillance
- High Dynamic Range Imaging
- Machine Vision

End Products

- Security camera
- Action camera
- Hunting camera
- Body camera
- Car DVR
- Industrial camera

Technical Documentation & Design Resources

Package Drawings (1)

Videos (1)

Availability & Samples

Specifications

Product	Status	Compliance	Description	Package		MSL*	Container		Budgetary Price/Unit
				Type	Case Outline		Type	Qty.	
AR0522SRSC09SURA0-DP	Active	Pb-free ----- Halide free	CMOS Image Sensor, 5.1 MP, 1/2.5", Near Infra-Red Enhancement, 5Mp 1/2.5" Image Sensor, RGB, 9 deg CRA, mPLCC, multi output, Drypack with protective film	PLCC-52	776AW	4	Tray JEDEC	1680	Contact Sales Office
AR0522SRSC09SURA0-DR	Active	Pb-free ----- Halide free	CMOS Image Sensor, 5.1 MP, 1/2.5", Near Infra-Red Enhancement, 5Mp 1/2.5" Image Sensor, RGB, 9 deg CRA, mPLCC, multi output, Drypack	PLCC-52	776AW	4	Tray JEDEC	1680	Contact Sales Office
AR0522SRSM09SURA0-DP	Active	Pb-free ----- Halide free	CMOS Image Sensor, 5.1 MP, 1/2.5", Near Infra-Red Enhancement, 5Mp 1/2.5" Image Sensor, Mono, 9 deg CRA, mPLCC, multi output, Drypack with protective film	PLCC-52	776AW	4	Tray JEDEC	1680	Contact Sales Office
AR0522SRSM09SURA0-DR	Active	Pb-free ----- Halide free	CMOS Image Sensor, 5.1 MP, 1/2.5", Near Infra-Red Enhancement, 5Mp 1/2.5" Image Sensor, Mono, 9 deg CRA, mPLCC, multi output, Drypack	PLCC-52	776AW	4	Tray JEDEC	1680	Contact Sales Office Inventory

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

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