onsemi

AR0522

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

Product Overview

For complete documentation, see the data sheet.

The AR0522 is a 1/2.5inch CMOS digital image sensor with an activepixel array of 2592 (H) x 1944 (V). It captures images in either linear or high dynamic range modes with a rollingshutter 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 (1/2.5inch)
- Color Filter Array : RGB and Monochrome
- 1440p Mode for 16:9 Video
- Superior Lowlight 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
- Onchip Phaselocked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction For more features, see the data sheet

Applications

- Video Surveillance
- High Dynamic Range Imaging
- Machine Vision

End Products

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

Part Electrical Specifications																
Product	Status	Compilance	Тур е	Meg apix els	Fra me Rate (fps)	Opti cal For mat	Shut ter Typ e	Pixel Size (µm)	Outp ut Inter face	Colo r	Pack age Typ e	Cas e Outli ne	MSL Typ e	MSL Tem p (°C)	Cont aine r Typ e	Cont aine r Qty.
AR0522SRSC09 SURA0-DP	Active	H 🕹	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	RGB	PLC C- 52	776 AW. PDF	4	260	JTR AY	1680
AR0522SRSC09 SURA0-DP1	Obsolet e	()	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	RGB	PLC C- 52	776 AW. PDF	4	260	JTR AY	168
AR0522SRSC09 SURA0-DR	Active	B 🚯	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	RGB	PLC C- 52	776 AW. PDF	4	260	JTR AY	1680
AR0522SRSC09 SURA0-DR1	Obsolet e	H 20	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	RGB	PLC C- 52	776 AW. PDF	4	260	JTR AY	168
AR0522SRSM0 9SURA0-DP	Active	H 🕖	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	Mon o	PLC C- 52	776 AW. PDF	4	260	JTR AY	1680
AR0522SRSM0 9SURA0-DR	Active	B 20	CM OS	5.1	60	1/2.5 inch	Elec troni c Rolli ng and Glob al Rese t Rele ase	2.2 x 2.2	Multi	Mon o	PLC C- 52	776 AW. PDF	4	260	JTR AY	1680

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