

AR0521

CMOS Image Sensor, 5.1 MP, 1/2.5"

Product Overview

For complete documentation, see the data sheet.

The AR0521 is a 1/2.5inch 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 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 AR0521 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a security applications.

Features

- 5 Mp at 60 fps for Excellent Video Performance
- Small Optical Format (1/2.5inch)
- 1440p Mode for 16:9 Video
- Superior Lowlight Performance
- 2.2 µm Back Side Illuminated (BSI) 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
- Slave Mode for Precise Framerate Control
 For more features, see the data sheet

Applications

- Video Surveillance
- High Dynamic Range Imaging

End Products

- Security Camera
- Action camera
- Car DVR

Part Electrical Specifications																	
Product	Status	Compilance	Тур	Me gapi xels	Fra me Rat e (fps	Opti cal For mat	Shu tter Typ e	Pixe I Size (µm)	Out put Inte rfac e	Col	Fam ily	Pac kag e Typ e	Cas e Outl ine	MS L Typ e	MS L Te mp (°C)	Con tain er Typ e	Con tain er Qty.
AR0521SR2C09 SURA0-DP	Active	# 20	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult	RGB	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168 0
AR0521SR2C09 SURA0-DP1	Last Shipme nts	1 (2)	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult	RGB	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168
AR0521SR2C09 SURA0-DR	Active	B @	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult i	RGB	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168 0
AR0521SR2C09 SURA0-DR1	Obsolet e	1 (2)	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult	RGB	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168
AR0521SR2M09 SURA0-DP	Active	t 30	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult	Mon o	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168 0
AR0521SR2M09 SURA0-DR	Active	H 20	CM OS	5.1	60	1/2. 5 inch	Elec tron ic Rolli ng and Glo bal Res et Rele ase	2.2 x 2.2	Mult	Mon	-	PLC C- 52	776 AW. PDF	4	260	JTR AY	168 0