

AR0430

CMOS Image Sensor, 4 MP, 1/3-inch

Product Overview

For complete documentation, see the data sheet.

The AR0430 has been designed for IoT and security cameras. In standard imaging mode, AR0430 can provide high quality imaging for both day and night lighting conditions perfect for security cameras. It has the ability to record at 120 fps delivering slow motion capable video which can use zoom and retain the resolution quality which is perfect for wearable devices. The innovative depth mode gives the user the ability to develop a depth map of anything within approximately one meter of the camera while still shooting video at 30 fps.

From a single camera, a user is able to participate in a video conference while replacing the background for security purposes. The user can also scan objects to create simple 3D models for use in virtual reality worlds or even interpret hand gestures to control smart devices.

Focused on low power and high performance, it provides options for battery power devices including a monitoring mode which can draw less than 8 mW of active power. In addition, the innovative pixel and depth sensor system design provides the ability to simultaneously take an image and produce a depth map from a single imaging sensor. This technology was built on the latest stacked die technology allowing the pixel array to be built using the latest high-performance 45-nm design rules while the supporting circuitry is built using highly reliable and cost conscious 65-nm design rules for the best of both worlds.

Features

- 4 MP at 120 frames per second
- High linear full well
- Simultaneous color imaging and depth data form a single sensor (30 fps)
- · Low power operation and special monitoring mode
- 1/3-inch optical format
- Sensor Synchronization
- Latest stacked pixel technology

Applications

4 MP CMOS Imaging sensor for consumer and industrial end products.

End Products

- IoT Camera
- Wearable Camera
- Security Camera
- AR/VR/MR Camera

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.
AR0430CSSC14 SMRA0-DP	Obsolet e	H &	CM OS	4	120	1/3. 1 inch	Elec tron ic Rolli ng	2.0 x 2.0	MIPI	Bay er Col or	-	mPL CC- 48	776 AZ. PDF	4	260	JTR AY	240
AR0430CSSC14 SMRA0-DR	Obsolet e	H &	CM OS	4	120	1/3. 1 inch	Elec tron ic Rolli ng	2.0 x 2.0	MIPI	Bay er Col or	-	mPL CC- 48	776 AZ. PDF	4	260	JTR AY	240
AR0430CSSC3 4SMD10	Obsolet e	H &	CM OS	4	120	1/3 inch	Elec tron ic Rolli ng	2.0 x 2.0	MIPI	Bay er Col or	-	-		NA	0	MT FR M	1