AR0234CS

1/2.6-inch 2.3 Mp CMOS Digital Image Sensor with Global Shutter

Product Overview

For complete documentation, see the data sheet.

The AR0234CS is a 1/2.6inch 2Mp CMOS digital image sensor with an activepixel array of 1920 (H) x 1200 (V). It incorporates a new innovative global shutter pixel design optimized for accurate and fast capture of moving scenes at 120 frame per second, full resolution. The sensor produces clear, low noise images in both lowlight and bright scenes. It includes sophisticated camera functions such as auto exposure control, windowing, row skip mode, columnskip mode, pixelbinning, and both video and single frame modes. It is programmable through a simple twowire serial interface. The AR0234CS produces extraordinarily clear, sharp digital pictures with an industry leading Global Shutter Efficiency, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including scanning, autonomous mobility, surveillance and industrial quality control.

Features

- Best in Class Global Shutter Efficiency
- Low Dark Current/Hot Pixels
- High Linear Full Well
- Low Operational Power
- Small Form Factor
- Built-In Statistics Engine
- Multiple Functional Modes - Row & Col Skip Modes, Pixel Binning

Applications

- Gesture recognition
- 3D scanning
- Position tracking
- Machine vision
- AR/VR/MR/XR

End Products

- Autonomous Mobile Robots
- Autonomous Guide Vehicles (Drones)
- Video Doorbells
- AR/VR/MR Headsets
- Barcode Readers

Part Electrical Specifications

Product	Status	Compilance	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.
AR0234CSSC00SUD20	Active		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	-		NA	0	MTFRM	1
AR0234CSSC00SUKA0-CP	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSC00SUKA0-CR	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSC28SUD20	Active		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	-		NA	0	MTFRM	1
AR0234CSSC28SUKA0-CP	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSC28SUKA0-CR	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Color	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSM00SUD20	Obsolete		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	-		NA	0	MTFRM	1
AR0234CSSM00SUKA0-CP	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSM00SUKA0-CR	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSM28SUD20	Last Shipments		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	-		NA	0	MTFRM	1
AR0234CSSM28SUKA0-CP	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100
AR0234CSSM28SUKA0-CR	Lifetime		CMOS	2.3	120	1/2.6 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	-	ODCSP-83	570CK.PDF	4	245	CTRAY	2100