

Product Overview

AR0234AT: 1/2.6-inch 2.3 Mp CMOS Digital Image Sensor with Global Shutter

For complete documentation, see the data sheet.

The AR0234AT is a 1/2.6-inch 2Mp CMOS digital image sensor with an active-pixel array of 1920 (H) x 1200 (V). It incorporates a new innovative global shutter pixel design optimized for the accurate and fast capture of moving scenes at full resolution 120 frame per second. The sensor produces clear, low noise images in both low-light and bright scenes. It includes sophisticated camera functions such as auto exposure control, windowing, row skip mode, column-skip mode, pixel-binning and both video and single frame modes. It is programmable through a simple two-wire serial interface. The AR0234AT produces extraordinarily clear, sharp digital pictures with an industry leading Global Shutter Efficiency, and its ability to capture both continuous video and single frames make it the perfect choice for a wide range of applications, including automotive in-cabin systems.

Features

- Superior Low-light and IR Performance
- HD Video (1080p120)
- 4-lane MIPI or Parallel Data Interface
- Automatic Black Level Calibration (ABLC)
- Programmable Control for Region Of Interest (ROI)
- Horizontal and Vertical Mirroring, Windowing and Pixel Binning
- On-chip Auto Exposure Control for Any Programmable ROI
- 5 x 5 Statistics Engine for Any Programmable ROI
- Flexible Control for Row and Column Skip Mode
- On-chip Slave or Trigger Mode for Synchronization

For more features, see the data sheet

Applications

- In cabin automotive
- Gesture Recognition
- Iris Scanning
- Head Roll
- Eye Tracking

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0234ATSM28XUEA0- DPBR-E		AEC Qualified PPAP Capable Pb-free Halide free	Active		2.3	120	1/2.3 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	IBGA-76
AR0234ATSM28XUEA0- DRBR-E		AEC Qualified PPAP Capable Pb-free Halide free	Active		2.3	120	1/2.3 inch	Global Shutter	3.0 x 3.0	MIPI Parallel	Mono	IBGA-76

For more information please contact your local sales support at www.onsemi.com.

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