AR0144AT

1/4" 1.0 MP Global Shutter CMOS Image Sensor

Product Overview

For complete documentation, see the data sheet.

The AR0144AT is a 1/4-inch 1.0 Mp CMOS digital image sensor with an active-pixel array of 1280 (H) × 800 (V). It incorporates a new innovative global shutter pixel design optimized for accurate and fast capture of moving scenes. 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 AR0144AT produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including automotive in-cabin systems.

Features

- Superior Low-light and IR Performance
- HD Video (720p60)
- 2-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
- On-chip Slave or Trigger Mode for Synchronization
- Built in Strobe Control
- On-chip Phase Lock Loop (PLL)
  For more features, see the data sheet

Applications

- Automotive In-Cabin / Driver Monitoring System

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
AR0144ATSM20XUD20		A Pb P H	Active		1	60	1/4 inch	Global Shutter	3.0 x 3.0		Mono	
AR0144ATSM20XUEA0-DPBR		A Pb P H	Active		1	60	1/4 inch	Global Shutter	3.0 x 3.0		Mono	IBGA-63
AR0144ATSM20XUEA0-DRBR		A Pb P H	Active		1	60	1/4 inch	Global Shutter	3.0 x 3.0		Mono	IBGA-63
AR0144ATSM20XUEA0-TPBR		A Pb P H	Active		1	60	1/4 inch	Global Shutter	3.0 x 3.0		Mono	IBGA-63
AR0144ATSM20XUEA0-TRBR		A Pb P H	Active		1	60	1/4 inch	Global Shutter	3.0 x 3.0		Mono	IBGA-63

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