

AR0135AT

CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter

Product Overview

For complete documentation, see the data sheet.

This 1/3-inch format, 1.2 MP imaging device has been designed to address the challenging requirements of automotive in-cabin cameras. The new global shutter sensor allows the camera to “freeze” fast moving scene data, and ensures effective synchronization with pulsed light sources. The AR0135AT sensor incorporates a new innovative global shutter pixel design, with 10X lower dark current and 4X higher shutter efficiency vs. previous generation products. These improvements allow the sensor to produce clear, low-noise images, in both low-light and bright scenes, and in high temperature environments. This performance enables the required eye tracking and gesture detection functionality in next generation automotive in-cabin systems.

Features

- Global Shutter Technology
- HD Video (720p60)
- Video/Single Frame Mode
- Flexible Row-skip Modes
- On-chip AE and Statistics Engine
- Parallel and Serial Output
- Support for External LED or Flash
- Auto Black Level Calibration
- Context Switching








Applications

- Automotive In-Cabin / Driver Monitoring System
- 720p60 Video Applications

End Products

- Driver Monitoring System

Part Electrical Specifications

Product	Status	Compliance	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.
AR0135AT2M00 XUEA0-DPBR	Lifetime		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	JTRAY	2600
AR0135AT2M00 XUEA0-DRBR	Lifetime		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	JTRAY	2600
AR0135AT2M00 XUEA0-TPBR	Lifetime		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	REEL	2000
AR0135AT2M25 XUEA0-DPBR	Lifetime		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	JTRAY	2600
AR0135AT2M25 XUEA0-DRBR	Lifetime		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	JTRAY	2600
AR0135AT2M25 XUEA0-TPBR	Last Shipments		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	REEL	2000
AR0135AT2M25 XUEA0-TRBR	Last Shipments		CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiS Pi™ Parallel	Monochrome	-	IBGA-63	503 AZ. PDF	3	260	REEL	2000