

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

- ON Semiconductor's Next Generation Global Shutter Technology
- Superior Low-light Performance
- 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

For more features, see the data sheet








Applications

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

End Products

- Drivind 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
AR0135AT2M00 XUEA0-DPBR			Active									IBGA-63
AR0135AT2M00 XUEA0-DRBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63
AR0135AT2M00 XUEA0-TPBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63
AR0135AT2M25 XUEA0-DPBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63
AR0135AT2M25 XUEA0-DRBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63
AR0135AT2M25 XUEA0-TPBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63
AR0135AT2M25 XUEA0-TRBR			Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75		Mono	IBGA-63

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Image Sensors](#) category:

Click to view products by [ON Semiconductor](#) manufacturer:

Other Similar products are found below :

[KAF-16803-ABA-DD-BA](#) [KAF-4320-AAA-JP-B1](#) [KAF-16200-ABA-CD-B2](#) [KAF-50100-AAA-JD-BA](#) [KAI-0340-FBA-CB-AA-SINGLE](#)
[KAI-11002-ABA-CD-B1](#) [KAI-2020-ABA-CD-BA](#) [KAI-2093-ABA-CB-B2](#) [KAI-2020-ABA-CP-BA](#) [KAI-01150-FBA-FD-BA](#) [KAF-8300-](#)
[AXC-CD-AA](#) [KAI-11002-ABA-CD-B2](#) [KAF-3200-ABA-CD-B2](#) [AR0331SRSC00SUCA0-DPBR](#) [EKL3104](#) [MT9V138C12STC-DP1](#) [KAI-](#)
[08051-AXA-JP-BA](#) [KLI-8023-RAA-ED-AA](#) [KAF-0402-ABA-CP-B2](#) [KLI-8023-AAA-ED-AA](#) [KAF-16200-FXA-CD-B2](#) [KAI-04050-AAA-](#)
[JP-BA](#) [NOM02A4-AG01G](#) [NOM02A4-AR03G](#) [KAF-1603-AAA-CP-B2](#) [KAF-1001-AAA-CP-B1](#) [NOIV1SE2000A-QDC](#) [KAI-1003-AAA-](#)
[CR-B2](#) [KAI-0340-FBA-CB-AA-DUAL](#) [KAF-0402-ABA-CD-B1](#) [KAI-01050-FBA-JD-BA](#) [AR0237IRSH12SHRA0-DR](#) [NOIV1SE5000A-](#)
[QDC](#) [OV02659-A47A](#) [AR0132AT6M00XPEA0-DRBR](#) [DR2X2K7_INVAR_RGB_V6](#) [DR2X4K7_INVAR_RGB_V6](#) [NOIP1SE1300A-QDI](#)
[AR0132AT6C00XPEA0-DRBR1](#) [AR0140AT3C00XUEA0-DPBR2](#) [AR0144CSSC00SUKA0-CPBR1](#) [AR0144CSSC00SUKA0-CPBR2](#)
[AR0230CSSC00SUEA0-DPBR2](#) [AR0238CSSC12SHRA0-DP2](#) [AR0330CM1C00SHAA0-DP2](#) [AR0330CM1C00SHAA0DR](#)
[AR0330CM1C00SHAA0-DP1](#) [AR0330CS1C12SPKA0-CP2](#) [AR0521SR2M09SURA0-DP1](#) [AR0522SRSC09SURA0-DP1](#)