

Product Overview

AR0331: CMOS Image Sensor, 3 MP, 1/3"

For complete documentation, see the data sheet.

The 3.1-megapixel sensor was created to meet the needs of the growing full HD video-centric surveillance market with the exceptional performance of the new 2.2-micron pixel sensor featuring ON Semiconductor's A-Pix technology. The AR0331 targets the mainstream 1/3-inch optical format surveillance camera market with excellent image quality. The sensor provides surveillance camera manufacturers with a performance upgrade to current 3-megapixel sensor designs with a best-in-class feature set to combining full HD video with wide dynamic range (WDR) capability and built-in adaptive local tone mapping. The new sensor provides HD video of up to 1080p at 60 fps employing advanced binning techniques to enable the sensors' sub 1-lux low light performance. The second HD image sensor in ON Semiconductor's surveillance portfolio, like the MT9M033 (720p/60fps), the AR0331 image sensor's low light and dynamic range capabilities enable a surveillance camera to capture HD video in the most challenging environments.

Features

- High Dynamic Range

Applications

- Security

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0331SRSC00SHCA0-DPBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	HiSPi™	Bayer Color	ILCC-48
AR0331SRSC00SHCA0-DRBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	HiSPi™	Bayer Color	ILCC-48
AR0331SRSC00SHCA0-DRBR1	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	HiSPi™	Bayer Color	ILCC-48
AR0331SRSC00SUCA0-DPBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	ILCC-48
AR0331SRSC00SUCA0-DPBR1	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	ILCC-48
AR0331SRSC00SUCA0-DRBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	ILCC-48
AR0331SRSC00SUCA0-DRBR1	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	ILCC-48
AR0331SRSC00XUEE0-DPBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	IBGA-63
AR0331SRSC00XUEE0-DRBR	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	IBGA-63
AR0331SRSC00XUEE0-DRBR1	Pb-free Halide free	Active	CMOS	3.1	60	1/3 inch	Electronic Rolling	2.2 x 2.2	Multi	Bayer Color	IBGA-63

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

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