

AR0544

Image Sensor, 5 MP, Rolling Shutter, Hyperlux™ LP

Product Overview

For complete documentation, see the data sheet.

AR0544, belongs to **onsemi's** Hyperlux LP product family, is a 1/4.2inch Back-Side Illuminated (BSI) Stacked CMOS digital image sensor with a 2592 x 1944 activepixel array. This advanced sensor captures images in either Linear or enhanced Dynamic Range (eDR) modes, with a rollingshutter readout. The AR0544 is architected & designed to deliver highquality performance consuming very low power. It is supported by a 1.4 μm BSI pixel from **onsemi** and delivers excellent performance in lowlight & NIR wavelengths. The features of the AR0544 provide a powerful data capturing device at the edge that can be programmed through several options to deliver optimal bandwidth at very low power.

Features

- Lowest Power Consumption among Comparable Offerings in the Industry
- Enhanced NIR Response in 850nm & 940nm Wavelength
- Wake on Motion (WOM)
- Multiple Subsampling Modes - Binning, summing, Skipping, Windowing
- Multiple Functional Modes - Global Reset Release (GRR), Trigger, Context Switching
- enhanced Dynamic Range (eDR) & Line Interleaved HDR (LI-HDR) Modes




Applications

- Videoconferencing
- Smart Access
- Virtual & Augmented Reality
- Machine Vision
- Retail Analytics

End Products

- VC Endpoints, Webcam
- Video Doorbells
- AR/VR/XR Headsets
- Machine Vision Cameras
- Retail In-store Cameras

Part Electrical Specifications

Product	Status	Compliance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0544CSSM11 SMKA0-CP-E	Active		CMOS	5	60	1/4.2 inch	Electronic Rolling and Global Reset Release	1.4 x 1.4	MIPI	Mono	ODC SP47 4.67 5x3.687	570 AW. PDF	5	260	CTR AY	1
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