

Product Overview

AR1335HS: High speed sensor supporting 13MP(4:3) at 30fps and 1080P up to 90fps

For complete documentation, see the data sheet.

The ON Semiconductor AR1335HS is a 1/3.2-inch BSI (back side illuminated) CMOS active-pixel digital image sensor with a pixel array of 4208H x 3120V (4224H x 3136V including border pixels). It incorporates sophisticated on-chip camera functions such as mirroring, column and row skip modes, and snapshot mode. It is programmable through a simple two-wire serial interface and has very low power consumption.

The AR1335HS digital image sensor features ON Semiconductor's breakthrough low noise CMOS imaging technology that achieves near-CCD image quality (based on signal-to-noise ratio and low-light sensitivity) while maintaining the inherent size, cost, and integration advantages of CMOS.

The AR1335HS sensor can generate full resolution image at up to 30 frames per second (fps) and 1080P up to 90fps. An on-chip analog-to-digital converter (ADC) generates a 10-bit value for each pixel.

Features

- High Speed 1080P at 90fps
- High quantum efficiency and sensitivity with low read noise
- Special Anti-reflection coating

Applications

- Advanced CMOS camera module

Benefits

- Great video experience and slow mode capability
- Exceptional low light performance
- Limits reflections and flare in extreme lighting situations

End Products

- Sports Action Camera
- Drone
- Consumer Products

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR1335HS SC11SMAA0-DPBR	Pb-free Halide free	Active	CMOS	13	30, 1080 @ 90	1/3 inch	Electronic Rolling	1.1 x 1.1	MIPI	Bayer Color	CLCC-48

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

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