



Product Overview

AR1820HS: 18 MP 1/2.3" CMOS Image Sensor

For complete documentation, see the [data sheet](#)

Product Description

The AR1820HS is an 18 megapixel, 1/2.3-inch format, 1.25 μm pixel sensor using ON Semiconductor's A-PixHS[™] BSI technology. With a variety of operating modes, the AR1820HS can dynamically optimize resolution, low-light and frame rate for environmental conditions. For example, the camera could run in full 18 megapixel resolution at 24 fps under high-light conditions, and switch to a 2:1 summing and 2:1 binning at 1080p 60 frames-per-second mode for superb low-light performance under darker conditions. With high resolution and frame rates, and a variety of flexible modes, the AR1820HS sensor is excellent for many applications such as surveillance, sports cameras and mobile handsets.

Applications

- Camera
- Security

Part Electrical Specifications

| Product | Compliance | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type | Pixel Size (μm) | Color | Package Type |
|----------------------|------------------------|--------|------|------------|------------------|----------------|--------------------|------------------------------|-------|--------------|
| AR1820HSSC12SHEA0-DR | Pb-free Halide free | NEW | CMOS | 18.1 | 24 | 1/2.3 inch | Electronic Rolling | 1.25 x 1.25 | RGB | IBGA-60 |
| AR1820HSSC12SMD20 | Pb-free Halide free | NEW | CMOS | 18.1 | 24 | 1/2.3 inch | Electronic Rolling | 1.25 x 1.25 | RGB | |
| AR1820HSSC31SMD20 | Pb-free Halide free | NEW | CMOS | 18.1 | 24 | 1/2.3 inch | Electronic Rolling | 1.25 x 1.25 | RGB | |

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

Created on: 7/11/2015