

Product Overview

MT9M131: CMOS Image Sensor System-on-Chip, 1.3 MP, 1/3"

For complete documentation, see the data sheet.

The MT9M131 is an SXGA-format single-chip camera with a 1/3-inch CMOS active-pixel digital image sensor. This device combines the MT9M011 image sensor core with fourth-generation digital image flow processor technology from ON Semiconductor. It captures high-quality color images at SXGA resolution.

ON Semiconductor's focus on pixel performance excellence enables the built-in advantages of having a high quality image sensor at the core of this SOC (System-on-Chip). ON Semiconductor's SOCs provide a variety of camera functions including auto focus, auto white balance, and auto exposure. SOC is a cost-effective, compact, one-chip solution providing exceptional image quality and ease of integration which can lower overall system costs and speed time to market.

Features

- System-on-a-Chip (SOC) - Completely Integrated Camera System
- Ultra-low Power, Cost Effective, Progressive Scan CMOS Image Sensor
- Superior Low-light Performance
- On-chip Image Flow Processor (IFP) Performs Sophisticated Processing: Color Recovery and Correction, Sharpening, Gamma, Lens Shading Correction, On-the-Fly Defect Correction
- Electronic Pan, Tilt, and Zoom
- Fast Exposure Adaptation
- Multiple Parameter Contexts
- Easy and Fast Mode Switching
- Simple Two-wire Serial Programming Interface
- ITU-R BT.656 (YCbCr), 565RGB, 555RGB or 444RGB Formats (Progressive Scan)

For more features, see the data sheet

Applications

- Security
- Biometrics
- Videoconferencing
- Toys

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

Created on: 10/23/2021