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Energy Efficient Innovations ON Semiconductor® Products Applications 🜔 Tools 🜔 About 🜔 MyON Home > Products > Product Taxonomy > Image Sensors & Processors > Image Sensors > VITA5000 VITA5000: CMOS Image Sensor, Global Shutter, 5.3 Megapixel Overview Specifications Packages **Datasheet: VITA** »View Material Composition PDF Product 5000 5.3 Megapixel »No Product Change Notifications exist A Overview 75 FPS Global Shutter CMOS

The VITA 5000 is a 1 inch Quad Super eXtended Graphics Array CMOS image sensor with a pixel array of 2592 by 2048.

The high sensitivity 4.8 µm x 4.8 µm pixels support pipelined and triggered global shutter readout modes and can also be operated in a low noise rolling shutter mode. In rolling shutter mode, the sensor supports correlated double sampling readout, reducing noise and increasing the dynamic range.

The sensor has on chip programmable gain amplifiers and 10 bit analog and digital converters. The integration time and gain parameters can be reconfigured without any visible image artifact. Optionally the on-chip automatic exposure control loop (AEC) controls these parameters dynamically. The image's black level is either calibrated automatically or can be adjusted by adding a user programmable offset.

A high level of programmability using a four wire serial peripheral interface enables the user to read out specific regions of interest. Up to 8 regions can be programmed, achieving even higher frame rates.

The image data interface consists of eight LVDS lanes, facilitating frame rates up to 75 frames per second. Each channel runs at 620 Mbps. A separate synchronization channel containing payload information is provided to facilitate the image reconstruction at the receiver end.

The VITA 5000 is packaged in a 68-pin LCC package and is available in a monochrome and color version. Contact your local ON Semiconductor office for more information.

Features

True family concept

Image Sensor

Rev. 7 (754kB)

- Multiple shutter modes
- · High configurability
- Fast adaptability
- Multiple windowing
- High dynamic range
- Applications
 - Machine Vision
 - Motion Monitoring
 - Security

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Benefits

- · Ease of adaption over multiple resolutions
- · Global and rolling, in master or slave mode
- Easily tailored to application requirement
- Fast change between operating modes
- Speed increase from windowing in x and y direction
- Capturing high dynamic scenes with no loss to image quality

End Products

- Security Systems
- Intelligent traffic systems
- Medical imaging equipment

Technical Documentation & Design Resources	5
Application Notes (4)	Package Drawings (1)
Reference Manuals (1)	Videos (1)
Data Sheets (1)	

Availability and Samples Budgetary Price/Unit Product Status Compliance Description Package MSL* Container CMOS Image Sensor, Global Shutter, 5.3 NOIV1SE5000A- Active Megapixel, LVDS Pb-free Contact Sales Office Tray JEDEC Output, Bayer Color, LCC-68 115AR 3 40 QDC Halide free >> Inventory Microlens, LCC package, sealed glass (D263) CMOS Image Sensor, Global Shutter, 5.3 Megapixel, LVDS Output, Monochrome, LCC-68 115AR 3 NOIV1SN5000A- Active Pb-free Contact Sales Office Tray JEDEC 40 ODC * Inventory Halide free Microlens, LCC package, sealed glass (D263) Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

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