



## Product Overview

### LUPA3000: CMOS Image Sensor, High Speed, 3 Megapixel, 485 FPS, 13.3 Gb

For complete documentation, see the data sheet

#### Product Description

LUPA3000 CMOS image sensor features industry leading digital data throughput of 13.2 Gbps. The 3.0 megapixel sensor offers a triggered and pipelined global shutter with a high frame rate of 485 frames per second (fps) and windowing capability for undistorted images and fast readout. The sensor also features on-chip digital LVDS (Low Voltage Differential Signaling) outputs that simplify the transport of sensor data and overall camera design for machine vision and holographic data storage applications. The sensor also has a dual slope capability to maintain good contrast in shadowed regions without saturating bright areas in scenes with a high contrast ratio.

#### Features

- Windowing capability
- Integrated digital LVDS outputs
- Dual slope capability
- Digital data throughput of 13.2 Gbps
- Triggered and pipelined global shutter with a high frame rate of 485 fps

#### Benefits

- Provides undistorted images and fast readout
- Simplifies the transport of sensor data and overall camera design
- Provides good contrast in shadowed regions without saturating bright areas

#### Applications

- High speed machine vision
- Holographic data storage
- Motion analysis
- Industrial imaging

#### End Products

- Medical imaging systems
- Intelligent traffic systems

#### Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
NOIL1SE3000A-GDC	Pb-free	Active	CMOS	3	485	1 inch	Pipelined and Triggered Global	8.0 x 8.0		Bayer Color	CPGA-369
	Halide free										
NOIL1SN3000A-GDC	Pb-free	Active	CMOS	3	485	1 inch	Pipelined and Triggered Global	8.0 x 8.0		Mono	CPGA-369
	Halide free										

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