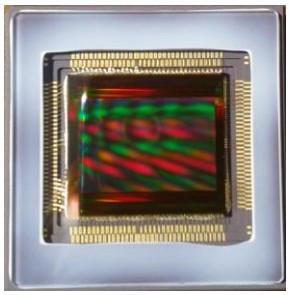
LUX13HS

The LUXIMA™ LUX13HS image sensor is a 1.0 Megapixel 3,500+ Fps Global Shutter CMOS Digital Sensor developed for the high speed machine vision, 3D scanning, motion analysis, and industrial markets. LUX13HS features low noise pixel with CDS based on the patented Floating Storage Gate technology.



Optical format	4/3”
Active resolution	1280 x 864 pixels
Pixel	13.7 um pitch 7T shutter pixel with CDS
Full well/ Read Noise	20,000e-/ 14e-
Responsivity	25V/Lux-s @ 550nm
QE	>45% @ 550nm
Conversion gain	75 uV/e-
DSNU	4mV r.m.s.
PRNU	1.5% rms
Shutter efficiency	99.9%
Frame Rate	Nominal: 3500 Frames/s @ 1280 x 864 4000 Frames/s @ 720p 9000 Frames/s @ 1184 x 384
Column Parallel ADC	10b
Data Output	80 LVDS ports @540MHz for 10-b output 64 LVDS ports for 8-b output
Multiplexed Output option	YES, 2:1 (40 LVDS ports @10b @ 2,500 Fps max)
Windowing	Y random access in quanta of 4 rows; X min = 1184 columns, smaller Xwin by data skip
Nominal clock rate	133 MHz
Power supply	3.3V Analog, 1.8V digital
Power consumption	2W @ 3500Fps full resolution
Package	352-pin uPGA, 36mm size 344-pin uPGA, 30mm size 236-pin uPGA 30mm; Multiplexed Output
Color Filter	RGB or Mono

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