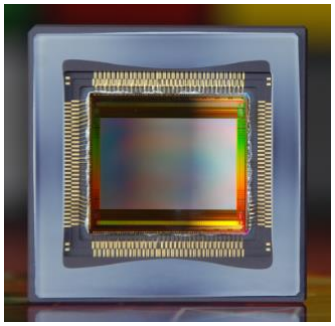
Luxima Technology LLC
600 N. Rosemead Blvd., Suite 212
Pasadena, CA 91107, United States of America
Tel: +1 626-510-6288 Email: info@luxima.com

LUX13HS

The LUXIMA™ LUX13HS image sensor is a 1.0 Megapixel 4,000+ 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. The user can obtain faster frame rates through Y windowing. Color and monochrome options are offered in a ceramic uPGA package.



Optical format	4/3”
Active resolution	1280 × 864 pixels
Pixel	13.7 um pitch 7T shutter pixel with CDS
Full well	20,000e-
Read noise	14e-
Responsivity	25V/lux-sec @ 550 nm
QE	30% @ 550 nm
PRNU	1.5% rms
Shutter efficiency	99.9%
Nominal frame rate	3,500FPS @ 1280 × 864 9,000FPS @1184 × 384
Column parallel ADC	10b
Data output	80 LVDS ports @540 MHz 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	2.5W
Package	361 uPGA, 36mm size 345 uPGA, 30mm size
Color filter	RGB or Mono

LUX13HS brief v2.2
November 2019