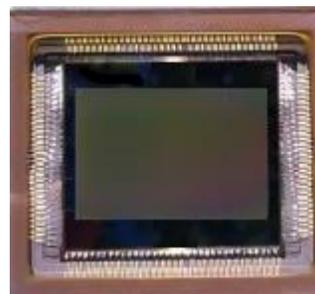


LUX19HS

The LUXIMA™ LUX19HS image sensor is a 2 Megapixel 2,500+ FPS Global Shutter CMOS Digital Sensor developed for the high speed machine vision, 3D scanning, motion analysis, and industrial markets. LUX19HS features low noise pixel with CDS based on the patented Floating Storage Gate technology. Color and monochrome options are offered in a ceramic uPGA package.



| | |
|---------------------------|---|
| Optical format | 4/3" |
| Active resolution | 1920 × 1080 pixels |
| Pixel | 10.0 um pitch 7T shutter pixel with CDS |
| Full well | 15,000e- |
| Read noise | 10e- |
| Responsivity | 20V/lux-sec @ 550 nm |
| QE | >45% @ 550 nm |
| PRNU | <1.5% rms |
| Shutter efficiency | 99.9% |
| Nominal frame rate | 2,500FPS @ 1920 × 1080 |
| Column parallel ADC | 8b |
| Data output | 80 LVDS ports @700 MHz for 8-b output 64 LVDS ports for 8-b output |
| Multiplexed output option | YES, 2:1 (40 LVDS ports @8b @ 1,500 FPS max) |
| Windowing | Vertical only |
| Nominal clock rate | 87.5 MHz |
| Power supply | 3.3V Analog, 1.8V Digital |
| Power consumption | 3W @ 2,500 FPS Full Resolution |
| Package | 345 Ceramic uPGA in a footprint of 30.0 mm × 28.0 mm |
| Color filter | Color or Monochrome |