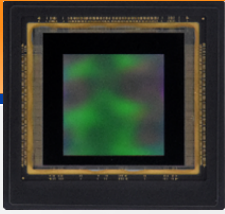


HDPYX 1600-G



16 MP, Global Shutter Low light HDR CMOS image sensor



HDPYX1600-G is the right image sensor for low light applications featuring High Dynamic Range (HDR), high speed, low noise and high sensitivity.



APPLICATIONS

- Night vision
- ITS (Intelligent Transport System)
- Surveillance



KEY FEATURES

- 4.4 μ m pixel pitch
- Global shutter with 2 operation modes: Low Noise (with multisampling) and High Speed
- Ultra-low crosstalk in NIR
- 2x2 Binning (charge domain)
- 12 bits ADC
- Output format: 12 or 16 (HDR) bits
- 32 LVDS data lanes up to 960 Mbps
- Ceramic package, LGA, 288 pins
- Power < 3.1W @ full speed
- Monochrome or standard RGB Bayer



MAIN CHARACTERISTICS

- Resolution 16 MP
- Active Pixels 4096 x 4096
- Aspect Ratio 1 : 1
- Max Frame Rate 100 fps
- Optical Diagonal 25.4 mm



PERFORMANCES

- High Dynamic Range > 80 dB (Dual gain)
- Readout Noise < 2e- in Low Noise mode
- Full Well Capacity > 17 ke-
- QE > 65% at 550nm
- SNR Max 42.3dB

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