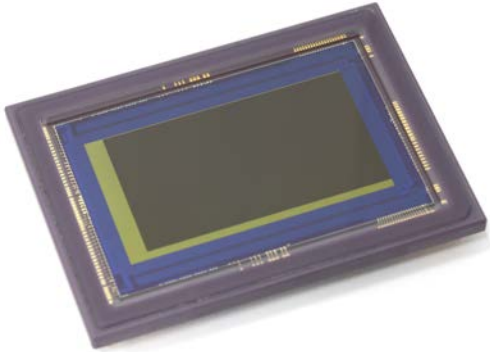


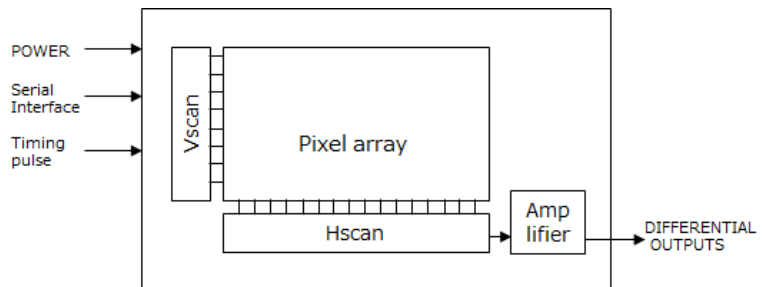
19 μ m x 19 μ m 2MP CMOS Sensor



The 35MMFHDXS CMOS sensor delivers high-sensitivity, low-noise imaging performance, even in exceptionally low-light environments. The sensor's pixels and readout circuitry employ new technologies that reduce noise, which tends to increase as pixel size increases. High sensitivity and increased well depth have been achieved through a larger pixel size of 19 μ m x 19 μ m (square) with proprietary device design technologies. The 35MMFHDXS CMOS sensor is available in RGB or Monochrome.

Specifications:

- Sensor size: 35mm film size (36.48mm x 20.52mm)
- Number of effective pixels: 2000h x 1128v, Approx. 2.2MP
- Filter types:
 - 35MMFHDXSC: RGB
 - 35MMFHDXSM: Monochrome
- Pixel size: 19 μ m x 19 μ m
- Progressive scan
- Rolling shutter
- Serial communication
- 180pin ceramic PGA
- Sensitivity:
 - 35MMFHDXSC (Green):: 1,100,000e/lx/sec @gain x1
 - 35MMFHDXSM: 2,100,000e/lx/sec @gain x1
- Saturation: 61,000e @gain x1
- Dark RN: 2.2e rms @gain x16, around 35 °C
- Dark Current: 250e/sec @gain x16, 60°C
- Simultaneous reading of vertical 4 lines
- Drive frequency: 16ch x 18MHz (Recommended)
- Output format: Source follower output (Analog)
- Built in column amplifiers: (Basic pre-amplifier gain: x1, x4, x16)
- Power consumption: 2.2W (At 60 fps under recommended operating conditions)
- Power supply voltage: 5V, 3.3V, others
- Package size: 60.9mm x 44.6mm x 3.57mm



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