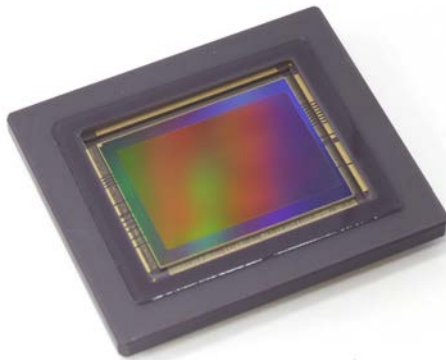


120 Megapixel CMOS Sensor

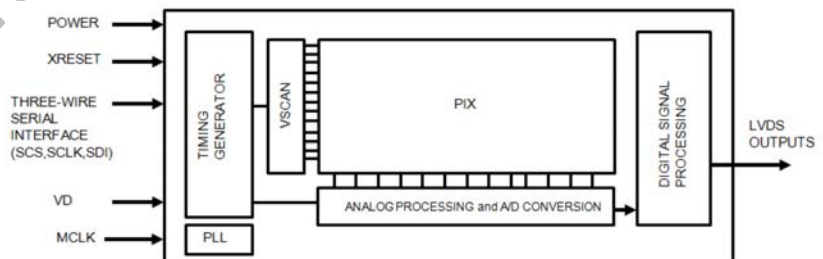


At 120 megapixels, this CMOS sensor has a pixel count equivalent to the approximate number of photoreceptor cells in the human eye. Ultra-high-resolution recording at approximately 60x the resolution of Full HD (1920 x 1080) is made possible by parallel signal processing, which reads signals at high speed from multiple pixels. Available in RGB Color, RGB+IR Color or Monochrome, these CMOS type solid-state imaging sensors have a size equivalent to APS-H (29.22 x 20.20mm), and a square pixel

arrangement (2.2µm x 2.2µm) with 122 million effective pixels. All pixel progressive reading of 9.4 fps is made possible by 28 digital signal output channels. The rolling electronic shutter movie function allows the electric charge accumulation period to be controlled.

Features

- Sensor size: APS-H or equivalent (29.22mm x 20.20mm)
- Filter types: RGB on-chip color filter, RGB+IR on-chip color filter, Monochrome
- Number of effective pixels: 13280h x 9184v, approx. 122MP
- Pixel size: 2.2µm x 2.2µm
- Progressive scan: 28 CH digital outputs
- Rolling shutter
- 188pin ceramic PGA
- Sensitivity (Green): 10,000e/lux/sec
- Saturation: 10,000e
- Dark RN: 2.1e rms @ gain x8
- Dark Signal: 8.1e/sec @ gain x8, 60°C
- Number of output channels: Data 28 lanes, Clock 14 lanes
- Main clock frequency: 45MHz (Recommended)
- Output format: 720Mbps in LVDS output 9.4fps @ 10 bit mode
- Built in column amplifier (Pre-amplifier gain mode: x0.5, x1, x2, x4, and x8)
- Serial communication
- All pixel progressive reading function, reading function for the Region of Interest (ROI) Readout (Vertically)
- Vertically intermittent reading function (1/1, 1/2, 1/3, 1/5, 1/7, and 1/15)
- Power consumption: 2.5W (at 10 bit mode under recommended operating conditions)
- Power supply voltage: 1.8 V, 3.5 V (TBD)
- Package size: 55.0mm x 47.8mm x 4.5mm



For more information or to contact us:
sensors.usa.canon.com • sensor_info@cusa.canon.com