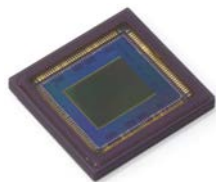


5 Megapixel Global Shutter CMOS



This CMOS image sensor is 2/3 inch and has a square pixel arrangement of $3.4\mu\text{m} \times 3.4\mu\text{m}$ with 5.33 million effective pixels (2592 x 2056).

Equipped with a global shutter, all of the sensor's pixels are exposed at the same time, which enables the capture of distortion-free images even when shooting fast-moving objects. It employs a new signal-readout drive system and new pixel structure that significantly expands the full

well capacity, reduces noise, and contributes to wide dynamic range high-image-quality video. Available in RGB and Monochrome, the sensor has a global electronic shutter function for controlling the charge accumulation time and all pixel progressive reading at 120fps.

Specifications:

- Sensor size: Approx. 2/3 inch (8.8mm x 7.0mm)
- Filter types:
 - RGB on-chip color filter
 - Monochrome
- Number of effective pixels: 2592h x 2056v, approx. 5.3M
- Pixel size: $3.4\mu\text{m} \times 3.4\mu\text{m}$
- Maximum Frame Rate: 120fps
- Global electronic shutter function
- Progressive scan
- Main clock frequency: 36MHz (Recommended)
- Sensitivity: 28,000e/lx/sec gain x1 (tbd)
- Saturation: 14,000e gain x1 (10 bit 60 fps) (tbd)
- Dark Random Noise: 3.0e @ gain x4 (tbd)
- Dynamic Range: 73db (tbd)
- Function: ROI function (8 region) Inverted output function (horizontal and vertical)
- 180pin ceramic LGA
- Power consumption (Typ): 500mW (full pixel scan at 60 fps)
- Power supply voltage: 3.3V, 1.2V
- Package size: 19.0mm x 18.1mm x 2.5mm

For more information or to contact us:
sensors.usa.canon.com • 855-79-CANON • sensor_info@cusa.canon.com