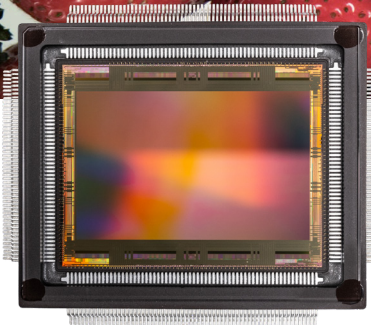
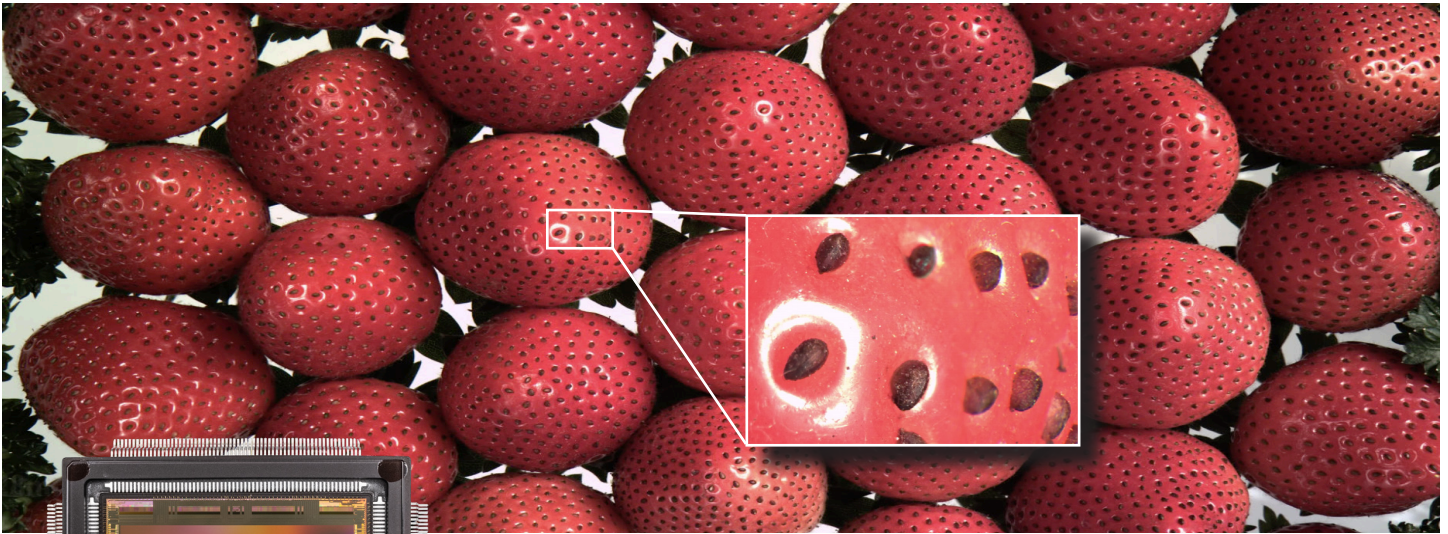


250 MP Ultra High Resolution CMOS Sensor

Preliminary Specifications



The 2U250MRXSAA is an ultra high resolution CMOS sensor with 19568 x 12588 effective pixels. It has a size equivalent to APS-H, a square pixel arrangement of 1.5 μ m x 1.5 μ m and is available with either an RGB color filter array or in a Monochrome configuration. The 2U250MRXSAA CMOS sensor captures stunning detail 125 times greater than Full High Definition resolution and 30 times that of 4K Ultra High Definition resolution. This sensor also supports features such as single ROI windowing in both the horizontal and vertical dimensions, faster frame rates when reducing resolution, and vertical intermittent reading.

Specifications

	2U250MRXSAA	2U250MRXSAA
Filter Type	RGB	Monochrome
Sensitivity	4,100 e/lx/sec (TBD)	TBD
Sensor Size	29.35mm x 18.88mm	
Number of Effective Pixels	19568h x 12588v	
Pixel Size	1.5 μ m x 1.5 μ m	
Scan Type	Progressive Scan	
Shutter	Rolling Shutter	
Maximum Frame Rate (All Pixels)	5 fps	
Region of Interest (ROI) Capability	1 Region Supported (Vertical & Horizontal)	
Package Type	228 pin Ceramic QFP	
Saturation	6000 e @0dB (TBD)	
Dark Random Noise (Room Temp)	3.1 e rms @18dB (TBD)	
Dark Current	6.0 e/sec @60°C (TBD)	
Drive Frequency	81MHz	
Output Channels	Data 16 Lanes, Clock 4 lanes	
Output Format (LVDS / SLVS)	810 Mbps @ 10 bit (TBD) 972 Mbps @ 12 bit (TBD)	
Analog Gain	0dB, 6dB, 12dB, 18dB	
Power Consumption	(TBD)	
Power Supply Voltage	1.2V, 3.3V, and 3.5V (TBD)	
Package Size (External Electrodes Not Included)	43.7mm x 36.4mm x 3.97mm (TBD)	

Applications

- 3D Metrology
- Aerial Mapping
- Aeronautic Imaging
- Digital Archiving
- Document Scanning
- Flat Panel Display Inspection
- Life Sciences
- Machine Vision
- Medical Imaging
- Packaging & Inspection
- Scientific Research
- Security
- Wide Area Surveillance

Variable Frame Rate

Approximate Resolution	Max Frame Rate
All Pixels	5.0
8K UHD	24
4K UHD	30
FHD	60

For more information visit <https://canon-cmos-sensors.com>