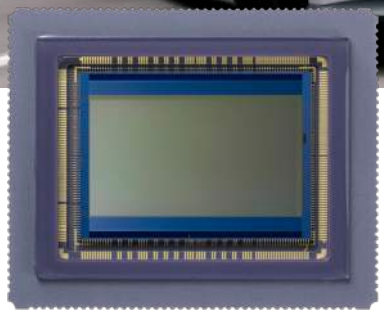
LI7010

9.24MP 4K CMOS Sensor

Product Sheet

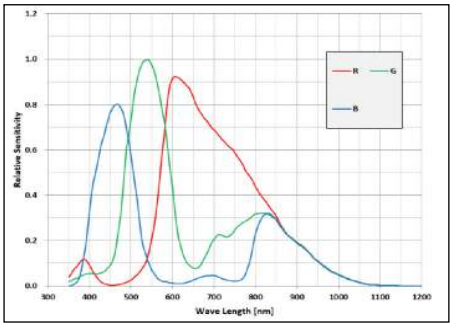


The LI7010 is a 9.24MP CMOS sensor for creating 4K capable imaging solutions in normal to low light level environments. With 4112 x 2248 effective pixels and a square pixel arrangement of 6.4µm x 6.4µm in a Super 35 format, the LI7010 offers a nice balance of resolution, sensitivity, and system size. This sensor also supports features such as single ROI windowing and faster frame rates when reducing resolution, along with a low 2.7 electron dark random noise. The LI7010 is available in an RGB color filter array configuration.

Specifications

	LI7010
Filter Type	RGB
Sensitivity (Green)	72,000 e/lx/sec @gain x1
Effective Pixel Area Size	26.32mm x 14.39mm
Number of Effective Pixels	4112h x 2248v
Pixel Size	6.4µm x 6.4µm
Scan Type	Progressive Scan
Shutter	Rolling Shutter
Maximum Frame Rate (All Pixels)	60 fps
Region of Interest (ROI) Capability	1 Region Supported
Package Type	154 pin Ceramic LCC
Saturation	39,000 e @gain x1
Dark Random Noise (Room Temp)	2.7 e rms
Dark Current	54 e/sec @60°C (package reverse side)
Drive Frequency	72MHz
Output Channels	Data 24 Lanes, Clock 2 lanes
Output Format	576 Mbps in LVDS output 60 fps @ 12 bit
Column Amplifier Gains	x1, x2, x4, x8
Power Consumption	2.0W (typ.) @All pixel readout at 60 fps
Power Supply Voltage	3.3 V, 2.1V, 1.8V, 1.0V, 0.85V, -1.2V
Package Size (External Electrodes Not Included)	46.00mm x 38.00mm x 3.59mm

Spectral Sensitivity



Applications

- 3D Scanning
- 4K Content
- Cinematography
- Industrial
- Security
- Surveillance

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