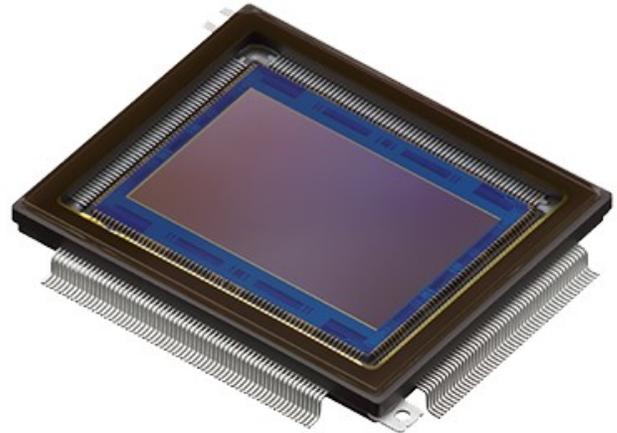


CMV-250 CL

Rolling Shutter CMOS

19,568 x 12,588 1.5um pixels APS-H Format
Shown with Canon EF mount



The **CMV-250** is a CMOS digital camera with an astounding 246 million effective pixels! That is 125x the resolution of Full HD. The CMV-250 is available in color and mono versions and is designed for use in industrial machine vision, high end surveillance, and document imaging applications.

The **CMV-250** offers outstanding quality by using the Canon LI8020SA CMOS sensor. The image sensor has 16 digital outputs each running at 756 Mhz. This results in 2.4 fps at full resolution. The sensor is operated in 12bit mode which results in true 10bit data output. (Note 10bit mode is only ~8 bits effective data due to the black offset of the internal ADC operation).

The **CMV-250** camera has all of the illunis "rugged" RMV features, such as high temperature range, military de-rated components, and a CNC machined case. The active (fan) cooling insures minimum dark current and excellent image quality.

CMV-250 CL Highlights:

- 19,568 x 12,588 = 250M pixels (including optical black)
- 1.5um x 1.5um super low noise pixel
- 12bit operation mode results in true 10bit data output (10.5 ENOB performance @ 25C)
- 29.35 x 18.88mm imaging area ~ APS-H
- Monochrome and RGB Bayer versions
- Rolling Shutter CMOS : Dynamic range 63dB
- Field-updatable firmware and extensive Built In Test (BIT)
- Camera Link output: Full (8x8 bit) and Deca (80bit 8x10 bit)
- F-Mount, C-Mount, M#, other lens mounts available
- OEM module available
- Built in test and performance analytics (SNR/Brightness/Sharpness/Optical Black)

CMV-250-CL Specifications

Sensor	Canon LI8020SAC/M Bayer Color. Mono
Architecture	Rolling Shutter CMOS
Configuration	Progressive scan
Active pixels	19,568 (H) x 12,588 (V), 246 Mpix 250Mpix with optical black
Pixel	1.5 x 1.5 μm with CDS
Active image size	29.35 x 18.88mm (APS-H)
Outputs	16 lvds outputs from sensor. Digitized 12bits, Output 8/10bits
Frame rates (Camera link limited)	2.4: Full 8/8bit 2.4: Deca 8x10bit
Dynamic range	63 dB
Pixel Clock speed	756Mhz DDR (12bit sensor mode)
Full well charge	5,400e
Sensitivity (e/lx/sec)	4,600 (Green), 11,000 (Mono)
Rolling shutter	Min exposure TBD
Dark Noise	3.8e-rms @ 12 dB
Dark current	0.1e-/s at 0C, 13 e-/s @ 60C
Power	7-12VDC at 6.5W Reverse power protected
Exposure modes	Free Run, Triggered Program, Triggered Pulse Width Max exposure = 65sec
Mount options	Canon-EF Mount, F-mount, M58 OEM configuration
Defect Correction Built In	Pixel, Hot Pixel, Shading
Options Please Call*	OEM Module, TEC Cooler, Mechanical shutter, 5/10GigE Vision
Operating Temperature	0 to +70 C (TBD)

Software

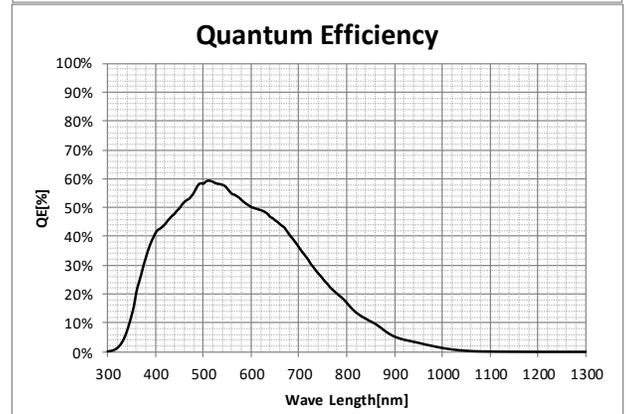
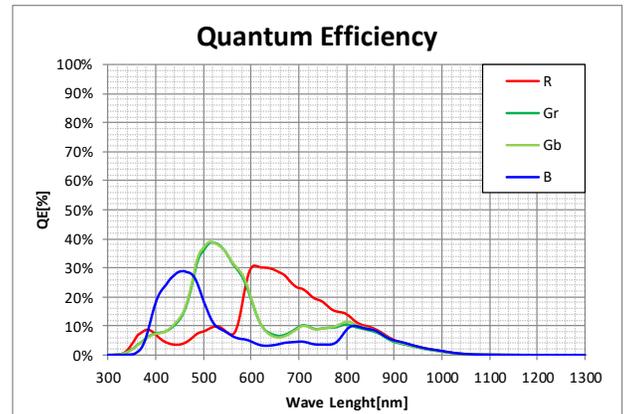
All illunis cameras come with our free camera control software, which allows interactive setup of all camera parameters.

illunis specializes in custom OEM camera designs

illunis, LLC
14700 Excelsior Blvd.
Mnnetonka, MN 55345
USA

Phone: 952.975.9203
Fax: 952.294.8308
email: info@illunis.com
web: www.illunis.com

Performance



Applications

- 3D metrology
- Aerial mapping
- Aeronautic imaging
- Digital Archiving
- Document scanning
- Flat panel display inspection
- Intelligent traffic systems (ITS)
- Machine vision
- Medical imaging
- Packaging & inspection
- Scientific research
- Security
- Wide area surveillance