



CMV-120 CL

Rolling Shutter CMOS

13,272 x 9,176 - 2.2µm PIXEL



The CMV-120 is a rolling shutter CMOS digital camera with an astounding 122 million pixels! The CMV-120 is available in color, color + IR, and monochrome versions and is designed for use in industrial, machine vision, aerial imaging, and document imaging applications.

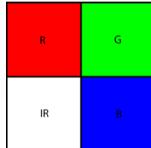
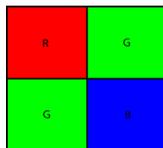
The CMV-120 uses the Canon 120MXSC and 120MXSM sensors in APS-H format. The sensors have 28 digital outputs each running up to 45Mhz. This results in 5.49 fps at full resolution. Higher frame rates can be achieved in ROI/windowing mode. The CMV-120 has all of the "rugged" features, such as industrial design, military de-rated components, and a CNC machined case. Fan cooling insures minimum dark current and excellent image quality.

CMV-120 CL CMOS HIGHLIGHTS

- ✓ 13,272 x 9,176 2.2µm active pixels
- ✓ Imaging area 29.22 x 20.20mm ~ APS-H
- ✓ RGB Bayer, RGB + IR, and Monochrome versions
- ✓ Rolling Shutter CMOS: Dynamic Range 60dB
- ✓ Windowing ROI capability
- ✓ Field Updatable Firmware and Extensive Built In Test (BIT)
- ✓ Lens Mount Options: M58/OEM, M72, Nikon F, Canon EF (In Development)
- ✓ USB3, GigE, and Fiber Interfaces in Development
- ✓ Incredibly Low Dark Current for Long Exposures

CMV-120 CL CMOS SPECIFICATIONS

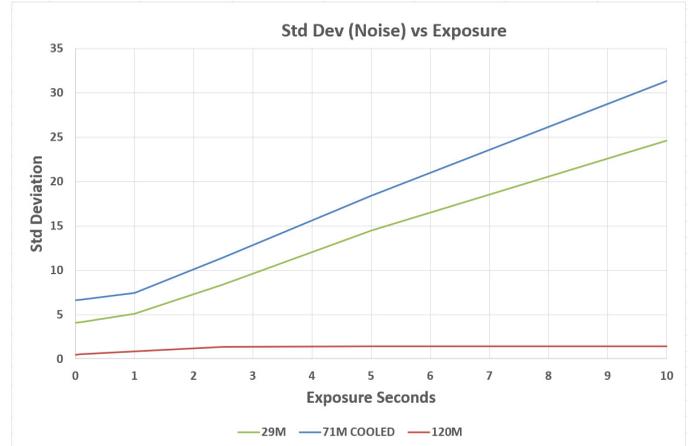
Sensor	Canon 120MXSC, 120MXSM
Architecture	Rolling Shutter CMOS
Configuration	Bayer Color, Bayer Color + IR, Mono
Active Pixels	13272 (H) x 9176 (V), 122 Mpix
Pixel Size	2.2 x 2.2µm with CDS
Active Image Size	29.22 x 20.20mm (APS-H)
Sensor Outputs	28 llvds outputs from sensor. Digitized 11 bits, Output 8/12 bits.
Frame Rate	See Table
Dynamic Range	60dB
Pixel Clock Speed	Up to 45Mhz
Full Well Charge	10000e
Minimum Exposure	100µs
Dark Noise	2.1e rms @ gain x8
Dark Current	8.1e-/s at 60C
Trigger Modes	Free Run, Trigger, Trigger Pulse Width
Lens Mount Options	M58/OEM, M72, Nikon F, Canon EF (In Development)
Power	7-12VDC at 4-6W
Operating Temperature	-30°C to +70°C (tested in CL)
Defect Correction	Pixel, Hot Pixel, Shading
Options	Tripod Adapter



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



NOISE PERFORMANCE



APPLICATIONS

- ✓ DE-MURA
- ✓ OLED/FPD INSPECTION
- ✓ LCD/FPD INSPECTION
- ✓ AERIAL IMAGING
- ✓ SCIENTIFIC IMAGING
- ✓ DNA SEQUENCING
- ✓ DOCUMENT IMAGING
- ✓ MILITARY APPLICATIONS
- ✓ PCB INSPECTION

Data Interface	bits / pixel	Frame Rate
Camera Link Full	8/10	5.49
Camera Link Deca	8x10bit	5.49

Get in Touch

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