

CMV-50 CL

Global Shutter CMOS

7920 x 6004 - 4.6µm PIXEL at 27 fps





The CMV-50 is a 24 tap 50 megapixel global shutter CMOS digital camera! The CMV-50 is available in color and monochrome versions and is designed for use in industrial, machine vision, aerial imaging, military surveillance, and scientific applications.

The CMV-50 Global Shutter CMOS offers outstanding quality by using the ams/CMOSIS CMV50000ES-1E3M1PA or CMV50000ES-1E3C1PA sensors. The image sensor has 24 digital outputs each running up to 69Mhz. This results in 27 fps at full resolution using Camera Link dual full readout. Higher frame rates can be achieved in ROI/windowing mode. Low thermal noise makes this camera particularily good for long exposures.

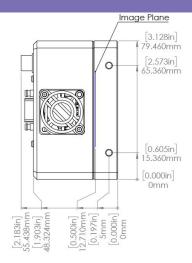
CMV-50 CL CMOS HIGHLIGHTS

- √ 7920 X 6004 4.6µm active pixels
- ✓ Dimensions 36.4x27.6mm ~ Approximately 35mm Full Frame
- ✓ Global Shutter CMOS
- ✓ Dynamic Range 64dB
- ✓ 8/12 bits up to 27 fps, faster with ROI
- ✓ 8, 12 bit selectable data output
- ✓ Field Updatable Firmware
- ✓ Lens Mount Options: M58/OEM, M72, Nikon F, Canon EF, Phase 1
- ✓ Windowing ROI capability
- ✓ 24 Tap readout at up to 69MHz each (1320Mpix/sec)
- ✓ CL Base, CL Medium, CL Full and CL Dual Full

CMV-50 CL CMOS SPECIFICATIONS

ams/CMOSIS CMV50000	
Global Shutter CMOS	
Mono, Bayer Color	
7920 (H) x 6004 (V), 47.5 Mpix	
4.6 x 4.6µm	
36.4 x 27.6mm (35mm Full Frame)	
24 lvds outputs from sensor. Digitized 12 bits, Output 8/12 bits.	
See Table	
64dB	
Programmable 10-69Mhz	
16000e	
110 µsec	
2.4 DN	
Free Run, Trigger	
M58/OEM, M72, Nikon F, Canon EF, Phase 1,	
7-12VDC at 3-6W	
-30°C to +70°C (tested in CL)	
Row, Column, Pixel, Hot Pixel	
Tripod Adapter	

DIMENSIONS



APPLICATIONS

- ✓ LCD/FPD INSPECTION
- ✓ AERIAL IMAGING
- ✓ SCIENTIFIC IMAGING
- ✓ DNA SEQUENCING
- **✓** TRAFFIC MANAGEMENT
- MILITARY APPLICATIONS
- **✓** PERSISTANT SURVEILLANCE
- ✓ PCB INSPECTION
- ✓ LONG EXPOSURES

Data Interface	bits / pixel	Frame Rate
Camera Link Base	8/12	3.41
Camera Link Medium	8/12	6.82
Camera Link Full	8	13.64
Camera Link Dual Full	8	27.27

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



Get in Touch



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