



CMV-50 CL

Global Shutter CMOS

7920 x 6004 - 4.6µm PIXEL at 22 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 resulting in 22 fps at full resolution using Camera Link Dual Full readout. Higher frame rates can be achieved in ROI/windowing mode.

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
- ✓ 8/10/12 bits up to 22 fps, faster with ROI
- ✓ 8/10/12 bit selectable data output
- ✓ Field Updatable Firmware
- ✓ Windowing ROI capability
- ✓ Shading Correction and Image Storage Function
- ✓ Base, Medium, Dual Medium, Full, Dual Full

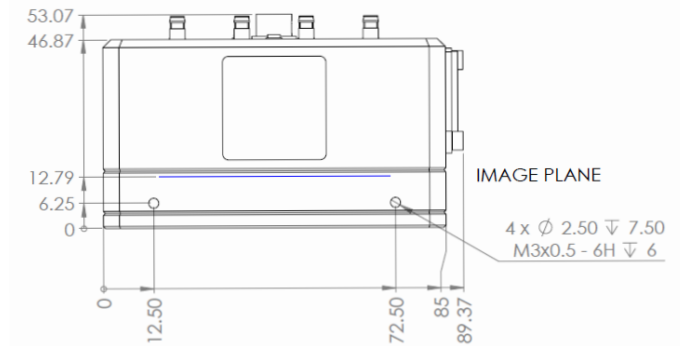
CMV-50 CL CMOS SPECIFICATIONS

Sensor	ams/CMOSIS CMV50000
Architecture	Global Shutter CMOS
Configuration	Mono, Bayer Color
Active Pixels	7920 (H) x 6004 (V), 47.5 Mpix
Pixel Size	4.6 x 4.6µm
Active Image Size	36.4 x 27.6mm (35mm Full Frame)
Sensor Outputs	24 lvds outputs from sensor. Digitized 12 bits, Output 8/10/12 bits
Frame Rate (CL)	See Table
Dynamic Range	64dB
Pixel Clock Speed	Programmable 10-69Mhz
Full Well Charge	16000e
Minimum Exposure	110 µsec
Read Noise	2.4 DN
Trigger Modes	Free Run, Trigger
Power	7-12VDC at 3-6W
Operating Temp (CL)	-30°C to +70°C
Defect Correction	Row, Column, Pixel, Hot Pixel
ROI	Up to 10 regions
Lens Mount Options	M58/OEM, M72, Nikon F, Canon EF
Options	Shading Correction, Image Storage Function, Tripod Adapter

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



M58 DIMENSIONS



APPLICATIONS

- ✓ LCD/FPD INSPECTION
- ✓ AERIAL IMAGING
- ✓ SCIENTIFIC IMAGING
- ✓ MILITARY APPLICATIONS
- ✓ PERSISTANT SURVEILLANCE
- ✓ PCB INSPECTION

Mode	Bit Depth	Frame Rate	CL Cables
Dual/Quad Firmware			
Camera Link Medium	10/12	5.9	2
Camera Link Dual Med.	10/12	12.2	4
Camera Link Full	8	12.2	2
Camera Link Dual Full	8	22.3	4
Base Mode Firmware			
Camera Link Full	8	11.7	2
Camera Link Medium	10/12	6.1	2
Camera Link Base	8/10/12	3.1	1

Get in Touch

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