



illunis XMV-50100

Product Brief



Introduction:

The XMV-50100 is a 8,176(H) x 6,132(V) - 50 Mega pixel digital camera used in industrial machine vision, military, and scientific market applications. The XMV-50100 offers an incredible resolution, with additional features such as: 14 bit sampling, advanced triggering and CCD readout control, built in detectors that analyze the camera's performance, image processing to remove sensor defects, and on screen tools for analyzing line/columns and text overlay. The XMV-50100 provides extreme performance at a very affordable price.

XMV-50100 Product Highlights:

- Latest Generation Imager
- 80,000,000 pixels per second
- Monochrome or color
- 14 bit sampling and 12 bit data path
- On screen text and line plots
- Pixel / Column defect correction
- 12-12 bit Look up tables
- Digital gain and offset
- Analog gain and offset for each tap
- Built in detectors measure performance
 - Exposure and Focus
 - Tap matching
 - Real time SNR
 - Raster parameters
- Built In test
- Industrial and Mil de-rated components
- Camera control GUI
 - Visual Basic Version
 - Free Source code with camera
 - Easy setup and control

High-Speed Digital Output using
Camera Link Base
GigE Vision



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eXtreme Machine Vision

Advanced Digital Machine Vision Cameras

XMV-50100 Specifications	
Sensor	Kodak KAF-50100
Technology	Full Frame CCD
Max Sensor DNR	70dB
Lens Mount	Schneider 100mm Lens included, CALL for other lens mount options
Sensing Area	49.1 mm x 36.8mm
Pixel Size	6.0 um x 6.0 um
Active Pixels	8,176 (h) x 6,132 (v)
Pixel Clock	20MHz
Frame Rates @ 20Mhz	0.6 dual, 1.1 four tap
Output Sensitivity	31µV/e
Tap Reorder	2 or 4 tap
Partial Scan	Any line to any line
Binning	Mono and color
Exposure	Global Electronic Shutter
Exposure Modes	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Minimum exposure = 0.5 ms
Power	12VDC @ 10 W
Dimensions w/o lens	20 x 12.5 x 14 cm
Weight with lens	3265 grams
Operating Temp	10 to 50 C, less than 90% RH (Call for extended temp ranges)
Options	CALL for special configurations including conformal coating, special airborne configurations and custom lens mounts