

illunis XMV-11002

Product Brief

Vision

Extreme Machine

Advanced Digital Machine Vision Cameras



Description:

The XMV-11002 is a 4,008(H) x 2,672 (V) - 11M pixel digital camera used in industrial machine vision, military, and scientific market applications. Designed from the ground up with the latest technologies, this camera represents a new standard in digital imaging. The XMV-11002 offers additional features such as: full 12 bit sampling and data paths, 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-11002 provides extreme performance at a very affordable price.

XMV-11002 Product Highlights:

- Latest Generation Imagers
- 60,000,000 pixels per sec.
- Industry's smallest size
- 12 bit sampling and data path
- On screen text and line plots
- Smear Reduction Circuit
- Pixel / Column defect correction
- 12-12 bit Look up tables
- Auto exposure and gain
- Digital gain and offset for each tap
- 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 derated components
- Camera control GUI
- Visual Basic Version
- Free Source code with camera
- Easy setup and control

High-Speed Digital Output using
Camera Link Base Standard



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XMV-11002 Specifications	
Sensor	Kodak KAI-11002
Technology	Interline Transfer CCD
Max Sensor DNR	64dB = 10 ENOB
Lens Mount	F-mount
Sensing Area	37.25 mm x 25.7 mm
Pixel Size	9.0 um x 9.0 um
Active Pixels	4,008 (h) x 2,672 (v)
Pixel Clock	30 Mhz / 20Mhz
Frame Rates @ 30Mhz	4.8 dual, 2.5 single tap
Output Sensitivity	13 µV/e
Tap Reorder	Built In
Partial Scan	Any line to any line
Binning	Independent H & V: 1-16x
Exposure	Global Electronic Shutter
Exposure Modes	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Triggered Double Exposure (TDE) Triggered Overlap Exposure (TOE) Free Run (FRM), Free Run Synchronized (FRS)
Exposure Resolution	Free Run: 1 Line Time, Triggered: 4-1024 pixel clocks per step
Sensor Taps	1 or 2 selectable
Gain Control	Digital .001 to 16X per tap, Analog 2-40dB, 10 bit range, Color versions have additional per color pre-gain control
Offset Control	Digital ± 4094 per tap, Analog 0-255, 8 bit range in 12 bit sample, Actively clamped per line
Power	12VDC @ 6W
Dimensions	77 x 67 x 67mm with F-mount 35 x 67 x 67mm without lens mount
Weight F-Mount w/o lens	471 grams 16.2oz
Operating Temp	0 to 50 C, less than 90% RH (Design tested -40 degrees C to +70 degrees C)
Options	CALL for special configurations including conformal coatings and custom lens mounts



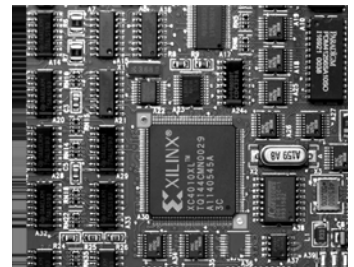
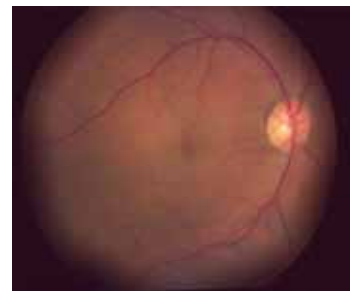
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XMV Applications

Applications for illunis cameras span from microscopic to high speed aerial imaging. Illunis cameras look for terrorists to tax cheats, finger fiducials to flat-panel defects, and all for the best price available. Here are a few applications;

- * Aerial Imaging and Reconnaissance
- * PCB, BGA and LCD Flat-Panel Inspection
- * Ophthalmic
- * Biometrics
- * Metrology
- * Traffic Management
- * Interferometry
- * Scientific imaging and microscopy
- * Portrait Photography



For more information on any illunis product including detailed specifications and options please visit our web page at www.illunis.com or email info@illunis.com or call us at the number below. illunis specializes in applying our proven intellectual property to your custom requirements at realistic NRE fees - call and find your OEM solution today.

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