

VMV CAMERAS



quality
innovation
reliability
performance



The **VMV** cameras are our latest area scan camera for the machine vision industry, scientific industry, medical and microscopy industry. Using the latest KODAK TRUESENSE 5.5 micron CCD sensor, these cameras offer outstanding quality and have additional features such as low smear of -100dB , blooming suppression of $>300\text{x}$, full 14 bit sampling and 12 bit data paths, advanced triggering and CCD readout control, built in detectors that analyze the camera's performance, and image processing to remove sensor defects.

The VMV cameras provides extreme performance at a very affordable price.

Highlights:

- Latest generation imagers
- Monochrome, color, TRUESENSE color
- Global electronic shutter
- Full 14 bit sampling
- 8, 10, 12 bit selectable data output
- $>64\text{ dB}$ dynamic range
- On Screen text and line plots
- Power over Camera Link (PoCL)
- Pixel and column defect correction
- Camera control GUI
- Binning modes
- Digital gain and offset for each tap
- Analog gain and offset for each tap
- Built in detectors
- Binning modes

VMV Camera Specifications

	VMV-1M	VMV-2M	VMV-2MHD	VMV-4M	VMV-8M
Sensor	Kodak KAI-01050	Kodak KAI-02050	Kodak KAI-02150 HD	Kodak KAI-04050	Kodak KAI-08050
Architecture	Interline Transfer CCD, Progressive Scan	Interline Transfer CCD, Progressive Scan	Interline Transfer CCD, Progressive Scan	Interline Transfer CCD, Progressive Scan	Interline Transfer CCD, Progressive Scan
Typical Sensor DNR	64dB	64dB	64dB	64dB	64dB
Lens Mount	C-mount or F-mount	C-mount or F-mount	C-mount or F-mount	C-mount or F-mount	C-mount or F-mount
Sensing Area	5.632 x 5.632 mm 7.96mm diag (1/2" optical format)	8.8 x 6.6 mm 11.0mm diag (2/3" optical format)	10.56 x 5.94 mm 12.1mm diag (2/3" optical format)	12.85 x 9.64 mm 16.06mm diag (1" optical format)	18.13 x 13.60 mm 22.66mm diag (4/3" optical format)
Pixel Size	5.5um x 5.5um	5.5um x 5.5um	5.5um x 5.5um	5.5um x 5.5um	5.5um x 5.5um
Active Pixels	1024 (h) x 1024 (v)	1600 (h) x 1200 (v)	1920 (h) x 1080 (v)	2336 (h) x 1752 (v)	3296 (h) x 2472 (v)
Pixel Clock	40 MHz	40 MHz	40 MHz	40 MHz	40 MHz
Frame Rates @ 40Mhz	60 dual, 30 single tap	34 dual, 18 single tap	33 dual, 17 single tap	16 dual, 8 single tap	8 dual, 4 single tap
Output Sensitivity	34µV/e	34µV/e	34µV/e	34µV/e	34µV/e
Tap Reorder	Built In	Built In	Built In	Built In	Built In
Partial scan	No	No	No	No	No
Binning	yes	yes	yes	yes	yes
Exposure	Global Electronic Shutter	Global Electronic Shutter	Global Electronic Shutter	Global Electronic Shutter	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)	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Triggered Double Exposure (TDE) Triggered Overlap Exposure (TOE) Free Run (FRM), Free Run Synchronized (FRS)	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Triggered Double Exposure (TDE) Triggered Overlap Exposure (TOE) Free Run (FRM), Free Run Synchronized (FRS)	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Triggered Double Exposure (TDE) Triggered Overlap Exposure (TOE) Free Run (FRM), Free Run Synchronized (FRS)	Triggered Program Exposure (TPE) Triggered Manual Exposure (TME) Triggered Double Exposure (TDE) Triggered Overlap Exposure (TOE) Free Run (FRM), Free Run Synchronized (FRS)
Field updateable firmware	FPGA and Micro	FPGA and Micro	FPGA and Micro	FPGA and Micro	FPGA and Micro
Sensor Taps	1 or 2 selectable	1 or 2 selectable	1 or 2 selectable	1 or 2 selectable	1 or 2 selectable
Power	12VDC @ 3.4W	12VDC @ 3.5W	12VDC @ 3.5W	12VDC @ 3.8W	12VDC @ 3.9W
Dimensions	60 x 60 x 28mm	60 x 60 x 28mm	60 x 60 x 28mm	60 x 60 x 28mm	60 x 60 x 28mm
Weight w/ F-mount	235 grams	235 grams	235 grams	235 grams	235 grams
Operating Temp	0C to +50C	0C to +50C	0C to +50C	0C to +50C	0C to +50C
Options	Limited. Call for OEM options	Limited. Call for OEM options	Limited. Call for OEM options	Limited. Call for OEM options	Limited. Call for OEM options

Applications

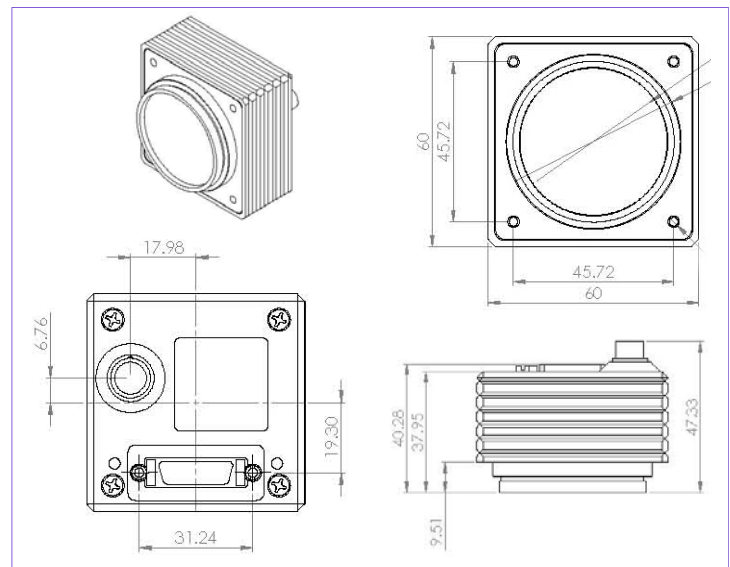
LCD inspection
Scientific imaging
Machine Vision applications
Traffic management
Military applications
PCB inspection

Software

All illunis cameras come with our free control application, which allows interactive setup of all camera parameters. The cameras can be configured using any terminal software that supports serial communication.

*We specialize in custom OEM camera designs.
Call us today to find out what we can do for you!*

Dimensions



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