



# illunis RMV cameras

RMV-11M, RMV-16M

Product Brief

## Introduction:

The RMV range of cameras expands on the XMV feature set and offers a rugged design, extended temperature range, super low noise, auto exposure and auto gain modes. The extended temperature range from -50 to +85 degrees Celsius (camera link) allows the camera to operate in harsh environments such as those encountered in many Military, Aerial, and Industrial market applications. RMV cameras also incorporate noise performance improvements that decrease noise by a factor of 2X providing a significant increase in camera sensitivity, extending its use over a wider range of illumination conditions. This reduction in noise performance is gained through the use of state-of-art technology along with years of experience in camera design and layout.



## RMV Product Highlights:

- Super low noise AFE (analog front end)
- Advanced Auto exposure
- Extensive feature set
- Industrial Temperature range
- 50C to +85C (camera link)
- Military de-rating
  - stress ratings
  - long life
- Forced cool air
- CNC machined case
- Back-focus adjustments
- Iridized and anodized finish
- Integral sealed CCD chamber with filter
- Case or flange mounts
- CE and FCC tested
- Color or Monochrome
- GigE Vision or Cable Link Base
- Custom versions available
- 14 bit digitization with 12 bit data path



## Expands on XMV feature set

- Tap reorder
- Look up table — 12 bit
- Flat field correction (column based)
- On screen display
- Auto exposure and auto gain modes
- Data overlay
- Lens control
- Built in test

RMV 16M-GE  
Custom 35mm large format lens shown

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Rugged Machine Vision  
Advanced Digital Machine Vision Cameras



Rugged Machine Vision

Specifications	RMV-11M	RMV-16M
<b>Sensor</b>	<b>Kodak KAI-11002</b>	<b>Kodak KAI-16000</b>
<b>Technology</b>	Interline Transfer CCD	Interline Transfer CCD
<b>Max Sensor DNR</b>	66dB	60dB
<b>Lens Mount</b>	F-mount. Call for other options	F-Mount. Call for other options
<b>Weight (w/o lens mount)</b>	471 grams/16 oz	471 grams/16 oz
<b>Pixel Size</b>	9.0 um x 9.0 um	7.4 um x 7.4um
<b>Active Pixels</b>	4008 (h) x 2672 (v)	4872 (h) x 3248 (v)
<b>Pixel Clock</b>	30 MHz	30 MHz
<b>Frame Rates</b>	4.8 fps	3.0 fps
<b>Output Sensitivity</b>	13µV/e	30µV/e
<b>Exposure Control</b>	Global electronic shutter	Global electronic shutter
<b>Exposure Modes</b>	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)
<b>Dynamic Range</b>	55,077/16.81 = 3276 ~ 11.6 bits	26,534/12.96 = 2047 ~ 11.0 bits
<b>Power</b>	12VDC @ 5.9W	12VDC @ 5.9W
<b>Typical Operating Temp</b>	-50 to + 85 degrees Celsius (CL)	-50 to + 85 degrees Celsius (CL)
<b>Options</b>	CALL for specific configuration including conformal coating, special airborne configuration and custom lens mounts	CALL for specific configuration including conformal coating, special airborne configuration and custom lens mounts

### Custom and OEM designs

We specialize in Mega pixel video camera designs for OEM's. We design in-house and maintain full creative control of electronics, interfaces, industrial design, optics and driver software and have an extensive library of design and intellectual property to serve as a foundation for customization. Because our camera designs are extremely modular, we can quickly and economically configure cameras to your requirements.

Our products include color and monochrome area scan CCD and CMOS cameras for high resolution applications. Our cameras are feature rich, competitively prices and designed for harsh environments

We are happy to customize camera features or packages to meet your needs and can design YOU a camera around any sensor that you choose.

For more information on any illunis product including detailed specifications and options please visit our web page at [www.illunis.com](http://www.illunis.com) or email [info@illunis.com](mailto: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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We Specialize in  Sensors

