

# RMV 7.4 $\mu$ m CAMERAS



## Interline CCD

The **RMV-xx070** camera series is the latest illunis area scan cameras used for machine vision, scientific, medical, and industrial applications. The RMV-xx070 camera series offers outstanding quality using the ON Semiconductor (Truesense) 7.4 micron CCD image sensor, as well as including additional features such as low smear -100 dB, blooming suppression of >300x, full 14 bit sampling and 12 bit data paths, advanced triggering and CCD readout control, built in detectors that analyze camera performance, and image processing to remove sensor defects.

The illunis RMV-7.4 $\mu$ m camera series provides extreme performance at a very affordable price.

### RMV-xx070 Highlights

- Latest generation imagers
- Monochrome, Bayer color, Truesense color
- Global electronic shutter
- Full 14 bit sampling
- 8, 10, 12 bit selectable data output
- >64 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



	RMV-2020	RMV-2170	RMV-4022	RMV-4070	RMV-16070
<b>Sensor</b>	KAI-02020	KAI-02170	KAI-04022	KAI-04070	KAI-16070
<b>Pixel Count (MP)</b>	1.9	2.1	4.2	4.2	15.7
<b>Sensor Dynamic Range</b>	60dB	64dB	72dB	70dB	70dB
<b>Lens Mount</b>	C, Nikon F or OEM	C, Nikon F or OEM	C, Nikon F or OEM	C, Nikon F or OEM	C, Nikon F or OEM
<b>Sensing Area</b>	11.84 x 8.88 mm 2/3" optical format	14.2 x 8.0 mm 1" optical format	15.2 x 15.2 mm 4/3" optical format	15.2 x 15.2 mm 4/3" optical format	36.0 x 23.9 mm 35mm optical format
<b>Aspect Ratio</b>	4:3	16:9	1:1	1:1	4:3
<b>Active Pixels</b>	1600 x 1200	1920x 1080	2048 x 2048	2048 x 2048	4864x 3232
<b>Pixel Clock</b>	40 MHz	40 MHz	40 MHz	40 MHz	40 MHz
<b>Well Depth (e)</b>	20,000	44,000	40,000	44,000	44,000
<b>Tap Reorder</b>	Built In	Built In	Built In	Built In	Built In
<b>Partial scan</b>	Any line to any line	Any line to any line	Any line to any line	Any line to any line	Any line to any line
<b>Binning</b>	2x2, 4x4	2x2, 4x4	2x2, 4x4	2x2, 4x4	2x2, 4x4
<b>Exposure</b>	Global Electronic Shutter	Global Electronic Shutter	Global Electronic Shutter	Global Electronic Shutter	Global Electronic Shutter
<b>Readout Modes</b>	Program Exposure Pulse Width Double Exposure Overlap Exposure Free Run Free Run Synchronized	Program Exposure Pulse Width Double Exposure Overlap Exposure Free Run Free Run Synchronized	Program Exposure Pulse Width Double Exposure Overlap Exposure Free Run Free Run Synchronized	Program Exposure Pulse Width Double Exposure Overlap Exposure Free Run Free Run Synchronized	Program Exposure Pulse Width Double Exposure Overlap Exposure Free Run Free Run Synchronized
<b>Field Updateable Firmware</b>	Yes	Yes	Yes	Yes	Yes
<b>Sensor Taps</b>	1 or 2 selectable	1, 2 or 4 selectable	1 or 2 selectable	1, 2 or 4 selectable	1, 2 or 4 selectable
<b>Frame Rates</b>	18, 35	15, 30, 60	8, 16	8, 14, 28	8, 16, 32
<b>Power (watts) Camera Link / USB Gig E</b>	At 12 V 6.8 +1W	At 12 V 6.8 +1W	At 12 V 6.8 +1W	At 12 V 6.8 +1W	At 12 V 7.3 +1W
<b>Dimensions C Mount F Mount</b>	60 x 68 x 70mm 60 x 68 x 95	60 x 68 x 70mm 60 x 68 x 95	60 x 68 x 70mm 60 x 68 x 95	60 x 68 x 70mm 60 x 68 x 95	NA 66 x 75 x 90mm
<b>Weight (grams) C Mount F Mount OEM Canon</b>	277 320 250 NA	277 320 250 NA	277 320 250 NA	277 320 250 NA	NA 414 280 543
<b>Operating Temp Camera Link</b>	-40 to 85° C	-40 to 85° C	-40 to 85° C	-40 to 85° C	-40 to 85° C
<b>Data Output Options</b>	Camera Link, USB or GigE*	Camera Link, USB or GigE*	Camera Link, USB or GigE*	Camera Link, USB or GigE*	Camera Link, USB or GigE*