

Adimec 4M CMOS family

Ultra fast 4-megapixel camera for machine vision



Key specifications

- 4-Megapixel
- Up to 196 fps @ full resolution
- Compatible with standard frame grabbers
- Unsurpassed image quality
- Reliable performance

Applications

- Flat Panel inspection
- Solar inspection
- 2D & 3D AOI
- SPI
- Metrology
- Inspection

Description

The Adimec 4M CMOS family exists of three models. Starting from a high speed fully configurable Adimec-4050 with CCD-like image quality to an ultra high speed Adimec-4200, especially designed for applications which requires the possible highest frame rates. The standard burst mode allows the highest acquisition speeds, still with a standard 8-tap Camera Link frame grabber. Higher sustained acquisition speeds can be achieved by the 10-tap mode.

With Adimec's proprietary camera electronics and firmware design, this camera family offers a unique combination of high frame speed, image quality, and exceptional reliability.



Adimec

Adimec designs and manufactures cameras for OEM customers with demanding applications whose goal is to be a product leader in their market. Unlike competitors who are offering general-purpose cameras, our products and support are focused to offer the benefits the OEMs need to be ahead.



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www.adimec.com

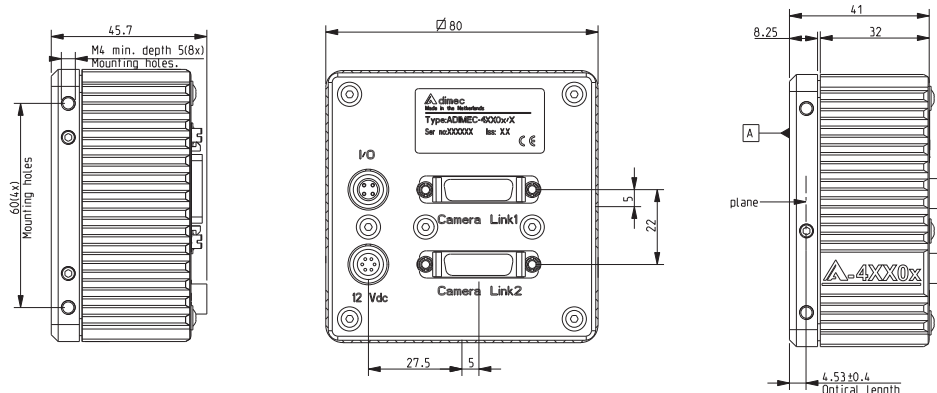
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Specifications

	Adimec-4050	Adimec-4150	Adimec-4200
Sensor	4/3" CMOS		
Pixel size	7.0 μm		
Resolution	2352 x 1728 pixels		
Max Frame Rate	144 fps	N/A	196 fps
Burst @ Full resolution			
Max Frame Rate	53 fps	144 fps	166 fps (@ 8-tap)
Sustained @ Full resolution			196 fps (@ 10-tap) ¹
Readout Time	6.9 ms	6.9 ms	5.1 ms
Sensitivity @ 100 % video, 1x gain, 33 ms integration time	4.6 Lux (mono), 12.0 Lux (Color)		
Readout Noise	40 e ⁻		
Dynamic Range	56 dB		
Defect Pixel Correction	Yes		
Electronic Shutter	Rolling Shutter		
Gain	Programmable between 1 - 8 x		
Image Acquisition	Continuous - Control - Burst Mode	Continuous - Control	Continuous - Control - Burst Mode
ROI	Dynamic, multiple, programmable		Single, programmable
Video Output	Programmable Base or medium	Full	Programmable Base, medium, full or Deca ¹
Output resolution	8 or 10 bit	8 bit	8 or 10 bit
Monochrome/ Color	Available in monochrome or color (bayer RGB)		
I/O Interface	Programmable strobe output and trigger input		
Power Input	10.5 - 16.0 Vdc		
Power Dissipation	4 W	6 W	8 W
Operating Temperature	-10°C to +40°C		
EMC / EMI	EN61000-6-3 and EN61000-6-2		
Testing	100 % Tested on all specifications		
Weight	350 gram (without lensmount)		
Lensmount	Available with C-mount, T2-mount or M42-mount		
Compliance	CE, ROHS		

All specifications are typical at 25°C unless otherwise mentioned. ¹Upon request.

Dimensions



Adimec is specialized in offering additional camera functionality and create customer specific cameras for large volume programs. For more information, please contact your Adimec office.

Adimec

Adimec is a leading worldwide supplier of high performance, innovative, and reliable camera products for use in:

- Machine Vision
- Medical Imaging
- Outdoor Imaging

Adimec's mission is to serve leading OEMs around the world who value quality and reliability as essential to their success.

Contact us today to find out why top corporations rely on Adimec.

For maximum image quality, performance, and reliability in demanding applications - Choose Adimec

North America

Phone: (+1) 781-279-0770

Fax: (+1) 781-279-0571

E-mail: salesus@adimec.com

Europe

Phone: (+31) 40-2353920

Fax: (+31) 40-2353925

Email: saleseu@adimec.com

Japan & Korea

Phone: (+81) 3-5968-8377

Fax: (+81) 3-5968-8388

E-mail: salesjp@adimec.com

Asia - Pacific

Phone: (+65) 6334-1236

Fax: (+65) 6334-1436

E-mail: salesap@adimec.com

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www.adimec.com