

## ADIMEC-1000m

# Real time, digital 1-Megapixel monochrome camera for fast machine vision applications

- 1004 x 1004 pixels with up to 50 progressive images per second
- Full a-synchronous image capture with programmable partial scan
  - Small outline & low power consumption
    - Unparalleled image quality





Member of a fully compatible product family sharing a common mechanical, optical, hardware and software interface



Adimec-1600m 1600x1200@34fps



Adimec-2000m 1920x1080@32fps



Adimec-4000m 2048x2048@16fps



Adimec-4020m 2048x2048@16fps

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## ADIMEC-1000m



Adimec is a prominent international supplier of high performance video cameras for use in machine vision, medical and military applications. Adimec targets OEM companies with a leading position in their market that consider performance and reliability of the product and the supplier to be critically important.

Adimec has over ten years experience translating demanding customer requirements into innovative, reliable and high performance camera products.

Our mission is to provide superior camera products to companies around the world that view image quality and product reliability as essential to their applications.

#### **FEATURES**

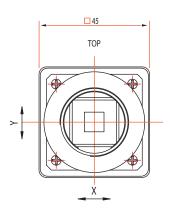
- 1004 x 1004 with 7.4 µm square pixels
- Interline CCD with microlenses with high Blue and NIR response
- Very stable and accurate sensor mounting
- High frame rate
- Excellent channel matching characteristics
- Continuous or asynchronous operation
- Partial scan
- Built-in test signal generator
- Camera Link interface
- Small outline & low power consumption
- High product reliability through rugged design

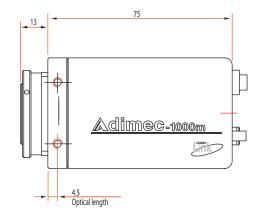
### **APPLICATIONS**

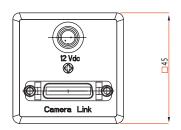
- Semiconductor inspection
- Electronics manufacturing
- 2D & 3D metrology

CD		ATI	ONS

Resolution, pixel size	1004 x 1004, 7.4 um square pixels		
Frame rate @ full resolution	Adimec-1000m/S, up to 30 progressive fps via a		
	single tap output		
	Adimec-1000m/D, up to 50 progressive fps via		
	dual tap		
Partial scan	120 fps at 128 x 1004 (max speed at min. size)		
Sensitivity @ 33 ms	1x Gain 5.5 Lux		
100% video	8x Gain 0.69 Lux		
Spectral Response	350 nm 30%, 500 nm 44%, 700 nm 21%		
Dynamic range	> 60 dB		
Gain range	1, 2, 4 or 8 times		
MTF	50% contrast @ 67 lp/mm (limiting resolution)		
Power input range, dissipation	< 5 W @10.5 to14 Vdc input		
Data format	CameraLink,		
(single/dual channel,	Base configuration@CameraLink spec 1.0		
8 & 10 bit, 40 MHz)			
Lens mount	Adjustable C- mount, other mounts on request		
Size	45 mm x 45 mm x 75 mm		
Weight	185 grams		
Operating temperature range	-10°C to + 40°C		
Shock	10 g, half sine shape, 6-10 ms duration		
Vibration	3 g, sinusoidal vibration sweeps 5-150 Hz		
Compliance CE/UL	CE compliant		







#### **ADIMEC:**

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

- Machine Vision
- Medical Imaging
- Military Targeting and Observation

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

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

Visit our website: www.adimec.com