

ADIMEC-1000c

Real time, digital, 1-Megapixel color 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



- For host based color processing



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



Adimec-1600c
1600x1200@34fps



Adimec-2000c
1920x1080@32fps



Adimec-4020c
2048x2048@16fps

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ADIMEC Background Information

Adimec is a leading supplier of high performance CCD cameras with over 12 years experience supplying major OEM's around the world. Adimec has the distinction of serving industry leading companies in three application areas; machine vision, medical, and defense imaging.

Adimec has been recognized as a quality leader in the creation of CCD cameras for these market applications since 1992.



ADIMEC-1000C HISTORY

The Adimec-1000c is a member of Adimec's line of high performance machine vision cameras based on the CameraLink interface standard. These cameras are known to offer higher image quality, faster frame rates, and greater durability than most machine vision cameras. Due to their versatility these cameras are being used as key components in applications ranging from wafer inspection to ophthalmology.

FEATURES

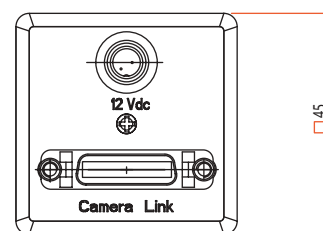
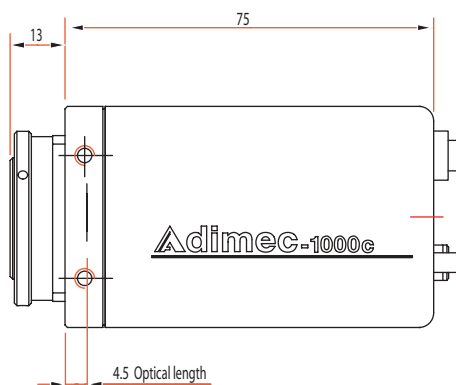
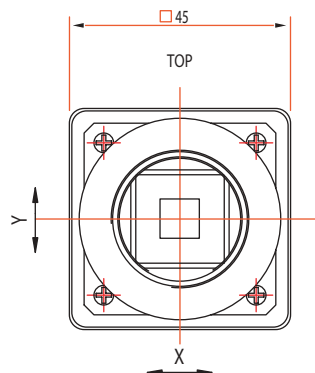
- Interline CCD with microlenses and Bayer color filter
- Stable and accurate sensor mounting
- Proprietary channel matching
- Continuous or asynchronous operation
- Built-in test signal generator
- Rugged & Reliable

APPLICATIONS

- Semiconductor inspection
- LCD measurement
- Intelligent Traffic Systems
- Customer specific versions can be tailored for use in medical or defense imaging

SPECIFICATIONS

Resolution, pixel size	1004 x 1004, 7.4 μ m square pixels
Frame rate	Adimec-1000c/S: 30 fps via single tap output Adimec-1000c/D: 50 fps via dual tap output
Partial scan range (max speed at min. size)	120 fps at 1004 x 128
Sensitivity in green @ 33 ms, 100% video	Typical 16.5 Lux
QE red, green, blue (3x)	Red: 31% @ 620 nm Green: 37% @ 540 nm Blue: 40% @ 460 nm
Dynamic range (green)	60 dB (typ.)
Gain range (overall)	1 to 8x in steps of 0.01
Gain range (per color channel)	1 to 4x in steps of 0.01
Power input range, dissipation	< 5 W @ 10 to 14 Vdc input
Data format (single/dual channel, 8, 10, 12 bits, 40 MHz)	CameraLink, Base configuration@CameraLink spec 1.0
Lens mount	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.