

ADIMEC-1600m Real time, digital 2-Megapixel camera for fast machine vision applications

- 1600 x 1200 pixels with up to 34 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



Adimec-1000m
1004*1004@50fps



Adimec-1600m
1600*1200@34fps



Adimec-2000m
1920*1080@32fps

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ADIMEC-1600m



The Adimec-1600m camera has been designed for demanding OEM customers that apply fast Megapixel cameras in the latest technology Machine Vision applications. The state of the art camera electronics allow for the highest possible frame rate, image quality and reliability. To support a wide variety of frame grabbers, the Adimec-1600m camera can be ordered in single tap (Adimec-1600m/S) or dual tap (Adimec-1600m/D) output mode with up to 17 or 34 fps, respectively.

The Adimec-1600m is a member of the Adimec line of fast Megapixel cameras that offer similar functionality and allow for easy upgrading. Its advanced features and unique performance ratio can not be found in any competing product. The Adimec-1600m is a perfect choice as a key component in a top of the line machine vision system.

FEATURES

1600 x 1200 with 7.4 μm square pixels
Interline CCD with high Blue and NIR response
Very stable and accurate sensor mounting
Adimec-1600m/S, up to 17 progressive fps @ full resolution via a single tap output
Adimec-1600m/D, up to 34 progressive fps @ full resolution via dual tap output with excellent channel matching characteristics
12 bit signal processing with defect pixel correction
Built-in Test Signal Generator
Camera Link interface
Small outline & low power consumption
High Product reliability through rugged design

BENEFITS

Allows for imaging of small details in a large inspection area
Supports low light levels and strobe illumination
Ensures accurate and reproducible measurement results
Offers highest quality of images at lowest overall cost

Offers the fastest frame rate without sacrificing image quality

Creates zero defect images of unparalleled quality
Allows for automatic testing of the digital imaging chain
Enables 'Plug and Play' frame grabber connection
Facilitates integration in modern inspection machines
Allows failure free operation in fast moving inspection machines

TYPICAL PERFORMANCE DATA

MTF	50% contrast @ 67 lp/mm (limiting resolution)
Sensitivity (for full video)	
1x Gain	6 Lux
8x Gain	0.75 Lux
Dynamic range	60 dB
Spectral Response	
350 nm	25%
500 nm	42% (peak)
700 nm	20%

IMAGE ACQUISITION & READOUT -Fully programmable

Continuous	Programmable frame rate and integration time down to 10 μs
Control	Full a-synchronous image capture via external control input
Partial Scan format	Programmable start line and number of lines, V-binning possible

INTERFACE -CAMERALINK 8 OR 10 BITS

Camera control	Fully RS232 Programmable over Camera Link interface
Power input	10.5 - 14 Vdc < 6 W
Lens mount	Adjustable C-mount, option F-mount
Camera outline & weight	52.5 x 52.5 x 80 mm, 250 grams
Operating Temperature (full performance)	-10 °C to + 40 °C
MTBF (MIL-HDBK-217F)	75,000 hours @ 40 °C

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 cameras are designed according to OEM customer specifications and are key components of state of the art video imaging systems. Adimec supports its customers and is committed to their success by continuously improving design, manufacturing and quality control processes.

Visit our website on: www.adimec.com