

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.

1600 x 1200 with 7.4 µm square pixels Allows for imaging of small details in a large inspection area interline CCD with high Bilue and NIR response Supports low light levels and strobe illiumination	FEATURES	BENEFITS
Very stable and accurate sensor mounting Ensures accurate and reproducible measurement results Adimec-1600m/S, up to 17 progressive fps @ full resolution via a single tap output Offers highest quality of images at lowest overall cost via a single tap output Adimec-1600m/D, up to 34 progressive fps @ full resolution via dual tap output with excellent channel matching characteristics Offers the fastest frame rate without sacrificing image quality 2 bit signal processing with defect pixel correction Creates zero defect images of unparalleled quality Built-in Test Signal Generator Allows for automatic testing of the digital imaging chain Camera Link interface Enables 'Plug and Play' frame grabber connection Small outline & low power consumption Facilitates integration in modern inspection machines High Product reliability through rugged design 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% 350 nm 25% 500 nm<	1600 x 1200 with 7.4 µm square pixels	Allows for imaging of small details in a large inspection area
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 a single tap output with excellent channel matching characteristics 12 bit signal processing with defect pixel correction Creates zero defect images of unparalleled quality Built-in Test Signal Generator Allows for automatic testing of the digital imaging chain Enables 'Plug and Play' frame grabber connection Small outline & low power consumption Facilitates integration in modern inspection machines High Product reliability through rugged design Allows failure free operation in fast moving inspection machines TYPICAL PERFORMANCE DATA MTF 50% contrast @ 67 lp/mm (limiting resolution) \$\$\$\$ sensitivity (for full video) \$	Interline CCD with high Blue and NIR response	Supports low light levels and strobe illumination
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Adimec-1600m/D, up to 34 progressive fps @ full resolution via dual tap output with excellent channel matching characteristics 2 bit signal processing with defect pixel correction Built-in Test Signal Generator Allows for automatic testing of the digital imaging chain Camera Link interface Enables 'Plug and Play' frame grabber connection Small outline & low power consumption Facilitates integration in modern inspection machines High Product reliability through rugged design Allows failure free operation in fast moving inspection machines TYPICAL PERFORMANCE DATA MTF 50% contrast @ 67 lp/mm (limiting resolution) 1 x Gain 8 x Gain 0.75 Lux Dynamic range 60 dB Spectral Response 350 nm 25% 500 nm 25% 500 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 Lens mount Adjustable C-mount, option F-mount Carear outline & weight 5.25 x 52.5 x 80 mm, 250 grams Operating Temperature (full performance) -10 °C to + 40 °C Office the signal transported in the digital imaging chain Allows for automatic testing of the digital imaging chain Rallows for automatic testing of the digital imaging chain Allows for automatic testing of the digital imaging chain Rallows for automatic testing of the digital maging chain Rallows for automatic testing of the digital maging chain Allows for automatic testing of the digital maging chain Rallows for automatic testing of the digital imaging chain Rallows for automatic testing of the digital maging chain Rallows for automatic testing of the digital maging chain Rallows for automatic testing of the digital maging chain Rallows for automatic testing of the digital maging chain Rallows for automatic testing of the digit	Adimec-1600m/S, up to 17 progressive fps @ full resolution	Offers highest quality of images at lowest overall cost
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Small outline & low power consumption Facilitates integration in modern inspection machines High Product reliability through rugged design Allows failure free operation in fast moving inspection machines TYPICAL PERFORMANCE DATA MTF 50% contrast @ 67 lp/mm (limiting resolution) Sensitivity (for full video) 6 Lux 1x Gain 6 Lux 8x Gain 0.75 Lux Dynamic range 60 dB Spectral Response 25% 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	Built-in Test Signal Generator	Allows for automatic testing of the digital imaging chain
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Power input $10.5 - 14 \text{Vdc} < 6 \text{W}$ Lens mountAdjustable C-mount, option F-mountCamera outline & weight $52.5 \times 52.5 \times 80 \text{mm}$, 250 gramsOperating Temperature (full performance) $-10 ^{\circ}\text{C}$ to $+40 ^{\circ}\text{C}$	INTERFACE -CAMERALINK 8 OR 10 BITS	
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Operating Temperature (full performance) -10 °C to + 40 °C	Lens mount	Adjustable C-mount, option F-mount
	Camera outline & weight	52.5 x 52.5 x 80 mm, 250 grams
MTBF (MIL-HDBK-217F) 75,000 hours @ 40 °C	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