



Captured Frames per Second*

Binning	REGION OF INTEREST		
	1600 X 1200	512 X 512	256 X 256
1 x 1	7.8	16.8	25.4
2 x 2	14.4	25.1	50.6
3 x 3	20.1	33.4	50.6
4 x 4	25.2	49.9	50.6

*.04ms exposure, no post-processing, images saved to RAM on 1.7 GHz P4 running Windows XP

CCD information:

Kodak KAI-2000-M with cover glass
 Monochrome progressive scan interline CCD
 1600 x 1200, 7.4 μm square pixels
 11.8mm x 8.9mm active area
 100x minimum anti-blooming

Cooling: Fan cooled heat sink

Digitization information:

Digitized pixel by pixel at CCD sensor
 Live mode: 8 bit x 36 MHz (Dual channel
 8 bit x 18MHz)
 Color live image frame rate: 15 -19 frames
 per second
 Capture mode: 10 bit x 18MHz (see chart for
 frame rate)

A/D Converter full scale set to 31,500 e (Gain=1)
 Saved bit depths: 8, 12 or 16 bit BW

Noise specifications:

Read noise: 55 e rms
 Dark noise: 5.0 e/p/s mean value

Exposure:

40 microsecond to 536 seconds
 Captured and live mode automatic exposure
 Captured and live mode manual exposure

Lens mount: C-mount

Sealing window: BK7 w/ multilayer
 anti-reflection coating

Computer interface: PCI bus card

External shutter control: BNC TTL level
 output w/ delay

Mechanical:

Tripod mount: 1/4 - 20 UNC
Camera head: 2.79" (71mm) x 3.75" (95mm) x 5.6"
 (142mm), 1.4 lbs. (0.62 kg)
Power supply: 1.3" (33mm) x 1.97" (50mm) x 3.35"
 (85mm), 0.34 lbs. (0.16 kg)
Operating environment: 0 to 30° C ambient, 0-80%
 relative humidity noncondensing
Power requirements: 100-240 VAC, 47-63 Hz

Certifications: CE, FCC Class A, EN60950

SPOT software features:

Live mode viewing window & controls, auto-
 exposure live and capture modes, image capture
 window, predefined and custom image setups,
 auto white balance, flat field correction, image
 enhancement tools in three color spaces (RGB,
 HSL, HSV), pan and zoom windows, annotation,
 calibration mark, measurement tools, sequential
 image capture and playback, archiving data base,
 report generator, interactive print dialog, online
 help menu

File formats:

BMP, TIFF, TIFF-JPEG, JPEG, JPEG-2000, PICT, AVI

TIFF File sizes:

8 bit BW / 1.83MB
 12 bit BW / 2.75 MB
 16 bit BW / 3.66 MB

Drivers included:

Twain for supported Windows® operating systems
 AppleEvent for supported Mac® operating systems

Native drivers for 3rd party software:

Call or visit our website (www.diaginc.com)

Minimum system requirements:

Full size PCI bus slot or PC/MCIA CardBus slot*

*-Requires Magma Adapter (sold separately)

PC: Pentium 166 or greater w/
 Windows 95, 98, 00, NT, ME, XP

Mac: Power PC, OS 8.6 - OS X

RAM: 64MB minimum, 256MB suggested

Video card: 24 bit RGB @ desired resolution

Items included: Camera head, PCI plug-in
 board, data cable, power supply cable, power sup-
 ply, power cord, SPOT software install CD (includes
 drivers), user guide, 1 year warranty