SPOT JR

CCD Grade:	■ Grade 2 Kodak KAF-0400 CCD	
CCD Format and Resolution:	■ Optical resolution: 766 x 510 pixels per color plane ■ 1.17 million pixels measured per image Image resoluation: 766 x 510 or 1532 x 1020	(
Digitization:	■ Pixel-by-pixel digitization in camera head	
Image Acquisition Bit Depth:	■ 24 and 36 bit RGB color 8 and 12 bit monochrome (red, green, or blue)	
Binning Modes:	■ 2x2, 3x3, 4x4	
File Sizes:	■ 766 x 510/24 bit RGB = 1.17 MB ■ 766 x 510/36 bit RGB = 2.34 MB ■ 1532 x 1020/24 bit RGB = 4.68 MB ■ 1532 x 1020/36 bit RGB = 9.36 MB	
Pixel Readout Rate:	■ 1.08 MHz	
Image Capture Time:	■ ~6 sec. to display on monitor (Brightfield image and PII 333 CPU)	
Exposure:	■ Choice of auto or manual exposure settings, exposure range 80ms-17 minutes per color	
Fast Focus:	■ 5 subframes per second typical	
CCD Cooling:	 ■ Thermoelectric cooler with forced air ■ Cooled to -12°C (37° differential at typical room temperature of 25°C) ■ Temperature stability +/-1°C in 8 hour period 	
Dark Current:	■ 0.3 e/p/s at -12°C (typical) ■ 0.7 e/p/s at -12°C (max)	
Read Noise:	■ 13 e rms (typical) 20 e rms (max)	
Signal to Noise Ratio:	■ 75 dB typical at 90% well fill 72 dB minimum at 90% well fill	
Operating Environment:	■ 10%-80% relative humidity ■ 15-30°C ambient	
Lens Mount:	■ Nikon "F" bayonet mount (adapters available for almost all new and older microscopes) can accept Nikon macro lenses	
Power Supply:	■ Factory configurable to 100V, 120V, 220V or 230V, 50/60Hz ■ Dimensions: 5.0"H x 10.5"W x 8.0"D ■ Weight: 12 lbs.	
Camera Head:	■ Dimensions: 5.0"H x 7.0"W x 7.25"D	

■ Weight: 7 lbs.

Copy Stand Mount: 1/4-20 screw mount

Computer Interface:

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■ PCI Bus

Software and Operating System: ■ For Windows 95/98/NT

Porprietary software environment includes:

*Auto exposure • Auto white balance • Image database • Report generator • Calibration mark imprinting • Distance, area and angle measurement • Editing tools (histogram, sharpen, gamma, ect.) • Annotation • Flatfield correction • Background subtract • Twain driver • Device driver available for several image analysis programs

■ For Mac Power PC: (Stand-alone due 4th Qtr '98) Twain driver (for use with Adobe Photoshop and other Twain compliant software)

Computer Requirements Pentium required (P166 or faster recommended)

■ 64MB RAM required (128MB recommended)

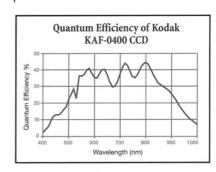
■ Video card should provide 24 bit RGB "millions of colors" at desired monitor resolution (8MB VRAM required for recommended 21" monitor operating at 1600 x 1200 resolution)

Computer Requirements MAC: ■ Power PC with a PCI bus running MAC OS 7.6 or greater

■ 64MB RAM required (128MB recommended)

■ Video card should provide "millions of colors" at desired monitor resolution (8MB VRAM recommended for resolution of 1280 x 1024)

External Shutter Control: ■ BNC connector on PCI plug-in board; TTL level output for shuttering fluorescence illuminator



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