Camera Models:
SP130: Slider w/ KAF-1401ME CCD
SP140: Slider w/ KAF-0401ME CCD
SP150: Monochrome w/ KAF-1401ME CCD
SP160: Monochrome w/ KAF-0401ME CCD

KAF-0401ME (SP140 & SP160)
Resolution: 766 x 510
Pixel Size: 9 x 9 micron
Active Area: 6.89 x 4.59 mm
Full Well: 60,000 e
A/D Full Scale set to: 51,000 e
Dark Current: 0.3 e/p/s at -12°C
0.7 e/p/s at -12°C
Read Noise: 13e rms typ.
20e rms max
S/N Ratio: 75 dB typical, 72 dB min.
Fast Focus: 4 subframes/second

File Size:
8bit mono: 0.39MB
12bit mono: 0.59MB, 16bit mono: 0.78MB
24bit color: 1.17MB, 36bit color: 1.76MB
48bit color: 2.34MB

KAF-1401ME (SP130 & SP150)
Resolution: 1315 x 1033
Pixel Size: 6.8 x 6.8 micron
Active Area: 8.94 x 7.02 mm
Full Well: 45,000 e
A/D Full Scale set to: 38,250
Dark Current: 0.05 e/p/s at -12°C
0.2 e/p/s at -12°C
Read Noise: 13e rms typ.
20e rms max
S/N Ratio: 69dB typical, 66 dB min
Fast Focus: 4 subframes/second

File Size:
8bit mono: 1.33MB
12bit mono: 1.99MB, 16bit mono: 2.66MB
24bit color: 3.98MB, 36bit color: 5.98MB
48bit color: 7.97MB

Camera Mount:
Slider Models: Nikon F-Mount Bayonet
Monochrome Models: C-Mount

Monochrome Camera & Monochrome Mode:
Window: UBK7 w/ <1% AR 420-820 nm

Color Mode:
Filter: Liquid Crystal Color Changing w/ IR filter
Color Capture: 3 consecutive images

Certifications:
FCC Class A, CE, EN60950

Enhanced System Common Specifications
Binning Modes:
1 x 1, 2 x 2, 3 x 3, 4 x 4
Digitization: 12bit at 1.08 MHz
Cooling: Peltier with forced air
-12°C (-37°C Differential) ± 1° C per 8 hours
Operating Environment:
10-80% Relative Humidity
15-30°C Ambient
Exposure:
Auto / Manual, 80ms-17 minutes
Computer Interface: PCI Bus
External Fluorescence Shutter Control:
BNC Connector
Programmable TTL Level Output
Power requirements: 100-240 VAC, 47-63Hz
Size: Camera 3.9”H x 6.5” W x 6.5”D
Weight: Camera 5.1lbs, Powersupply 3.3lbs

SPOT Software Features:
• Mono Live Image Window
• Image Capture Window
• Predefined and Custom Image Setups
• Auto & Manual Exposure
• Auto White Balance
• Flat Field Correction
• Image Enhancement Tools
• Zoom & Pan Window
• Annotation
• Calibration Mark
• Measurement Tools
• Sequential Image Capture & Playback
• Archiving Database
• Report Generator
• Online Help Menu
• Print Dialog

Minimum System Requirements:
PC: Pentium 166MHz or greater w/ Windows 95, 98, 00, NT, ME, XP
MAC: Power PC w/ PCI Bus, OS 8.6-OSX
RAM: 64MB min., 256 Suggested
Video Card: Support of 24 bit
RGB @ Desired Resolution

File Formats:
TIFF, TIFF-JPEG, JPEG, PICT, AVI

Drivers Included:
Twain for Supported Windows Operating Systems
AppleEvent for Supported MAC Operating Systems

Native Drivers for 3rd Party Software:
Call or visit our web site.

Items Included:
Camera Head, PCI Plug-in Board, Data Cable, Power Supply, Power Cord, Power Supply Cable, SPOT Software Install CD (includes drivers), User Guide, 1 Year Warranty

Diagnostic Instruments, Inc.
6540 Burroughs St.
Sterling Heights, MI 48314-2133 USA
Ph: 586-731-6000
Fx: 586-731-6469
E-mail: info@diaginc.com
Website: www.diaginc.com