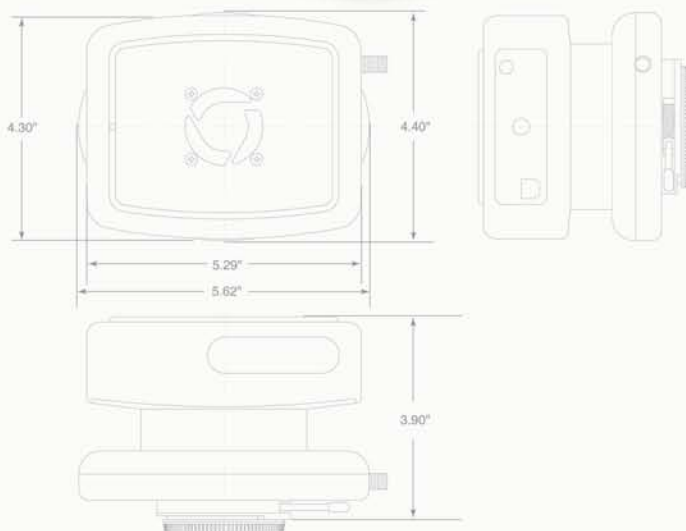


The SPOT™ Pursuit Slider delivers both true color and high sensitivity monochrome imaging in one digital camera. It offers superior quantum efficiency and Peltier cooling, optimizing sensitivity for low light scientific applications. This compact camera provides 14-bit digitization with multiple readout speeds for recording dynamic events. The many applications for this versatile camera include brightfield color imaging, GFP imaging, immunofluorescence, ion tracking, and 3D deconvolution.

The SPOT Pursuit includes SPOT Basic software (Windows® and Mac® OS) for real-time image preview and acquisition, and drivers are available for third party imaging software applications. A Software Development Kit (SDK) is available at no charge for easy integration with custom applications. Advanced triggering enables precise synchronization with peripherals, and USB 2.0 connectivity affords effortless installation on computers and laptop portability.



Pursuit™ USB 1.4 Mp SLIDER



Features

Benefits

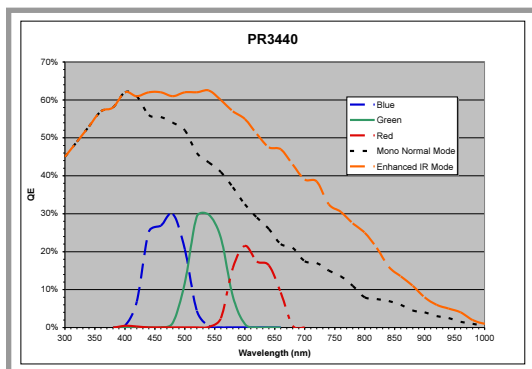
Dual Mode Slider Mechanism	Provides both color and quantitative monochrome in one camera
>10 fps Image Capture	High speed, high resolution image capture
8 e ⁻ Read Noise	Excellent low light detection limit and SNR
Enhanced IR Mode	Increased sensitivity, for wavelength > 525nm
USB 2.0	Plug and play cable connection, no frame grabber card needed
-25° C Cooling	Suppresses dark current noise
Mac® and Windows® OS	Choose your OS environment



SPOT™ Imaging Solutions
A division of Diagnostic Instruments, Inc.

Specifications	
Resolution	1.4 Mp
Sensor Type	Sony ICX285AL CCD monochrome
Shutter	Global electronic
Active Pixels	1360 x 1024
Pixel Size	6.45 μm x 6.45 μm
Optical Format	2/3"
Active Imager Size	8.77mm (H) x 6.60mm (V) 10.97mm diagonal
Exposure Time	0.5ms – 1500sec
Anti-Blooming	100x minimum
Binning	2 x 2, 3 x 3, 4 x 4, 8 x 8
Region of Interest	User selectable, 50 x 50 to full resolution
Read Noise	8 e ⁻ RMS typical
Dark current	0.0033 e/p/s
Full Well Depth	>16,000 e ⁻ (no binning) >24,600 e ⁻ (with binning)
Non-linearity	<1%
A-D Converter	14-Bit @ 20 MHz DCS
Saving Bit Depth	8, 12 or 16 bits/channel (24, 36 or 48 bit color)
Analog Gain	0.65, 1
Cooling	-25 C differential from ambient Computer controlled fan cooled Peltier
Lens Mount	F-mount
Computer Interface	USB 2.0
Triggers	Camera ready output (TTL) External trigger input (TTL) Exposure sync output (TTL)
Tripod Mount	1/4"-20
Weight	2.4 lbs (1.09 kg)
Size	5.3" W x 4.4"D x 2.7"H (135mm x 112mm x 68mm)
Power Requirements	100-240 VAC 1A
Operating Environment	0 to 50°C, 95% relative humidity (non-condensing)
Storage Temperature	-20 to 60°C
Certifications	CE, FCC Class A, EN60950, RoHS

Quantum Efficiency (Monochrome mode)



Captured Frame Rates Captured Frames per Second *

Binning level	Region of interest				
	1360x1024	640x480	512x512	256x256	50x50
None	10.9	21.5	20.5	36.2	92.4
2 x 2	20.1	37.3	35.9	58.3	114.0
3 x 3	28.0	49.4	48.2	73.8	124.6
4 x 4	34.8	59.2	57.7	84.6	130.0
8 x 8	55.3	83.6	83.2	108.7	138.8

*1ms exposure with post-processing deferred, taken with 2.6 Ghz Xeon processor running Windows XP. Capture rates on other computers OS platforms may vary (Monochrome Mode).

SPOT Software	
SPOT Basic Software Features	Color Live mode viewing window with controls Image capture window Image capture setups are user defined, named and saved Auto or manual exposure for Live and captured images Zoom control on Live and captured images Auto white balance Spot or average metering Flatfield correction Annotation Calibration mark Measurement tools Image enhancement tools Sequential image capture and playback Report generator Interactive print dialog Help menu Drivers: Twain for Windows®, 3rd Party Interface for Mac®
Computer Operating System Compatibility	Mac®: OS X and above Windows®: XP, Vista®, 7 (32 bit versions only)
Minimum Computer Requirements	Mac®: 400MHz Power PC, 512MB RAM, USB 2.0 port PC: 1GHz Pentium, 512MB RAM, USB 2.0 port Mac® and PC video: 24-bit color @ 1024 x 768 resolution
SPOT Advanced Software	Available (includes macro feature, floating taskbars and image archiving database)
SPOT Advanced Software Modules (Optional)	Available (adds image display intensity scaling, peripheral device control and extended depth of focus)
Software Development Kit	Available for Mac® and Windows®
Native Drivers for 3rd Party Software	Available (call or visit our website)

Items Included	
Camera Head	With lens cap
USB2 Cable	Carries data
Power Supply	With power cord, 4.25" (108mm) x 2.50" (64.5mm) x 1.30" (33mm), 0.60 lbs. (0.27kg)
Quick Start Installation Guide	Instructions on how to get up and running quickly
Software CD	Includes SPOT Basic software and User Guide
Warranty	2 years from date of purchase

Catalog Number	C-Mount	F-Mount
Pursuit 1.4 Mp USB Slider	NA	PR3440

Mac® is a registered trademark of Apple Inc.
Windows® is a registered trademark of Microsoft.
Specifications are typical and subject to change.



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Data Sheet: Pursuit USB Slider Rev. C