The SPOT™ Idea camera delivers 12-bit high quality images for the serious microscopist at a low price. The SPOT Idea produces 3.0 megapixel resolution in vivid colors, enhancing publications, documentation and archiving. The SPOT Idea is an excellent choice for pathology, as well as clinical, life and material science, measurement, educational, and industrial applications.

The SPOT Idea includes SPOT Basic software (Windows® and Mac® OS) which features real time image previewing, scale bar addition, report generation, time lapse, and measuring capabilities. Its USB 2.0 interface enables "plug-and-play" installation, and trigger options provide precise synchronization with peripherals. SPOT Idea cameras come with a 2-year warranty and are supported by an experienced team of imaging specialists.





Features	Benefits
3.0 Mp Images	Resolves fine image detail
Real time Live mode	Frame and focus in real time 76 fps at 640 x 480 ROI at full resolution 31 fps, full frame at 1/2 resolution 12 fps, full frame at full resolution
Auto and Manual exposure control	Let the software compute the exposure time and gain or set them yourself
USB 2.0	Single cable connection provides effortless installation, reduces cable clutter and enhances laptop portability (no power supply or frame grabber card needed)
SPOT Basic Imaging Software	Provides essential tools for modern microscopy
Mac® and PC	Compatible with both Mac® and Windows® computers

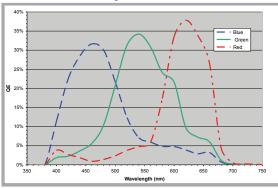


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Sensor				
Resolution	3.0 Mp			
Sensor Type	CMOS, color mosaic, Bayer pattern			
Shutter	Rolling shutter with single frame capture			
Active Pixels	2048 x 1536			
Pixel Size	3.2µm x 3.2µm			
Optical Format	1/2" (4:3)			
Active Imager Size	6.55mm (H) x 4.92mm (V) 8.19mm diagonal			
Exposure Time	107µs – 15sec			
Variable Resolution	User selectable			
Region of Interest	User selectable			
Read Noise	18.5 e⁻ rms			
Full Well Depth	>20,000 e ⁻			
Non-linearity	<1%			
Bit Depth	8 or 10 bits/channel (24 or 30 bit color)			
Sensor Readout Frequency	48MHz (into camera frame buffer)			
Analog Gain	1, 2, 4 and 8			

Camera				
Lens Mount	C-mount			
Computer Interface	USB 2.0			
Trigger Connectors	Sync output (TTL) External trigger input (TTL)			
Tripod Mount	1/4"-20, stainless steel threads			
Weight	1.31 lbs (295g)			
Size	4.05" W x 3.05" D x 1.40" H (103mm x 77mm x 36mm)			
Power Consumption	2W from USB cable			
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



Captured Frame Rates Captured Frames per Second*

Binning level	Region of interest					
	2048x1536	1024x768	640x480	256x256	50x50	
Full Res	12	38	76	180	489	
1/2 Res	31	80	122	196	432	
1/3 Res	44	81	119	184	385	
Sequential Image Capture (frames per second)						
Full Res	7	26	65	181	505	
1/2 Res	26	80	123	196	434	
1/3 Res	44	81	119	184	387	

^{*} Frame rates measured with 107µs exposure time on 2GHz Intel Dual Core Xenon processor running Windows XP. Post-processing was deferred on sequential images. Frame rates may vary on other processors and operating systems.

SPOT Software

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				
	Correct Color Technology™ using ICC/ColorSync corrections				
	Flatfield correction				
	Annotation				
	Calibration mark				
	Measurement tools				
	Image enhancement tools				
	Sequential image capture and playback				
	Report generator				
	Interactive print dialog				
	Help menu				
	3rd Party Software Interface: Twain for Windows®, SPOT Image Capture Application & AppleEvent for Mac®				
Computer Operating System Compatibility	Windows®: XP SP3 (32-bit), Vista (32 or 64-bit), 7 (32 or 64-bit) and 8 (32 or 64-bit)				
Cyclem Companienty	Mac®: OS 10.6 - 10.8				
	PC: 1GHz Pentium 4 (or equivalent x86 SSE2 processor), 1 GB RAM, USB 2.0 port				
Minimum Computer Requirements	Mac®: Intel processor, 1 GB 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 both data and power				
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	Idea 3.0 Mp ID2720				
	Specifications are typical and subject to change.				



Specifications are typical and subject to change.

SPOT[™] Imaging Solutions
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