The third generation SPOT RT3[™] Monochrome camera delivers high quality images with market-leading 14-bit digital output. Electronic circuitry refinements and deep cooling provide clean, uniform backgrounds when light is limited. The camera's 1" format sensor eliminates the need for expensive de-magnifying optics, and its large pixel wells enhance dynamic range. The **RT3** Monochrome is optimal for fluorescence microscopy, FISH, GFP imaging, immunofluorescence and 3 D deconvolution.

The SPOT RT3 includes SPOT Basic software (Windows® and Mac® OS) which features real time image previewing, scale bar addition, report generation, time lapse, and measuring capabilities. Drivers are available for third party imaging software applications and a Software Development Kit (SDK) is available at no charge for integration with custom applications. IEEE 1394 Firewire™ connectivity enables effortless installation on computers and laptop portability. SPOT RT3 cameras come with a 2-year warranty and are supported by an experienced team of imaging specialists.



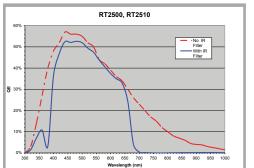


Features	Benefits
CCD cooled to -43.3°C below ambient	Reduces dark noise for long exposure image capture
1600 x 1200 (1.92 Mp) image capture	Resolves fine detail
Programmable gain (1-16x)	Facilitates live mode previews of low light specimens
14-bit x 20 MHz capture	Extra bit depth is ideal for image enhancement
40 MHz live mode (dual channel 20 MHz)	High-speed imaging for real time viewing
Interline progressive scan CCD	Electronic shuttering eliminates mechanical shutter shortcomings related to speed, wear, and vibration
FireWire® interface	Allows for effortless installation, hot-swapping, and laptop connectivity for greater ease of use



Sensor		
Resolution	1.92 Mp	
Sensor Type	Kodak KAI-2020-M with cover glass	
Active Pixels	1600 x 1200	
Pixel Size	7.4 μm x 7.4 μm	
Optical Format	1"	
Active Imager Size	11.8 mm x 8.9 mm active area 14.8 mm diagonal	
Exposure Time	0.5 ms to 286 minutes; captured and live mode automatic expo- sure; captured and live mode manual exposure	
Binning	1x1, 2x2, 3x3, 4x4, 8x8	
Region of Interest	User selectable, 50 x 50 to full resolution	
Cooling	-43.3°C differential from ambient via thermoelectric cooler with hermetically sealed, fan cooled heat sink (-23.3°C from an ambient of 20°C)	
Read Noise	16 e⁻ rms	
Dark current	0.003 e/p/s (typical)	
Full Well Depth	31,500 e⁻ (Gain=1)	
Non-linearity	<1%	
Bit Depth	8, 12, 14 or 16-bit BW	
Sensor Readout Frequency	20 MHz	
Camera		
Lens Mount	C-mount	
Computer Interface	FireWire (IEEE 1394a)	
Trigger Connectors (optically coupled)	Camera ready (TTL) External trigger input (TTL) Exposure sync output (TTL)	
Tripod Mount	1/4"-20 UNC	
Weight	2.4 lbs. (1.09 kg)	
Size	5.77" W x 4.02" D x 3.15" H (147 mm x 102 mm x 80 mm)	
Power Requirements	100-240 VAC, 1.5A	
Operating Environment	0 to 30°C ambient, 0 to 80% relative humidity (non-condensing)	
	-20 to 60°C	
Storage Temperature	-20 to 60°C	

Quantum Efficiency



Captured Frame Rates Captured Frames per Second *

Binning level	Region of interest				
	1600 x 1200	1024 x 1024	512 x 512	256 x 256	50 x 50
1 x 1	7.6	8.9	16.0	26.7	58.2
2 x 2	13.8	15.8	26.2	38.6	63.4
3 x 3	18.7	20.9	32.2	44.5	64.6
4 x 4	22.1	24.5	35.9	46.2	60.6
8 x 8	27.9	29.6	37.0	41.4	40.9

*0.5 ms exposure with post-processing deferred, taken with 1.67 GHz AMD XP2000 processor running Windows XP. Other platforms may provide different results.

SPOT Basic Software FeaturesColor live mode viewing window with controls Image capture setups are user defined, named and saved Auto or manual exposure for 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 3rd Party Software Interface: Standard Twain for Windows®, SPOT Image Capture Application & Apple Event for Mac®: OS 10.6 - 10.8Computer Operating System CompatibilityPC: 1GHz Pentium 4 (or equivalent x86 SSE2 processor), 1 GB RAM, IEEE 1394a port Mac®: Intel processor, 1 GB RAM, IEEE 1394a port Mac® and PC video: 24-bit color @ 1024 x 768 resolutionSPOT Advanced Software IncertaceAvailable (adds image display intensity scaling, peripheral device control, extended depth of focus and extended third party indertace)SPOT Advanced Software Development kitAvailable (adds image display intensity scaling, peripheral device control, extended depth of focus and extended third party incertace)Software Development kitAvailable for Mac® and Windows®Items IncludedData cables (6 pin and 6 to 9 pin) With power cord, 2.29" (58mm) x 5.20" (132mm) x 1.18" (30mm) 0.70 lbs. (0.32kg)	SPOT Software				
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	Firewire Cables	Data cables (6 pin and 6	to 9 pin)		
	Power Supply	With power cord, 2.29" (58mm) x 5.20"			
Quick Start Instructions on how to get up and Installation Guide running quickly					
Software CD Includes SPOT Basic software and User Guide	Software CD				
Warranty 2 years from date of purchase	Warranty	2 years from date of purchase			
Catalog Number C-Mount F-Mount	Catalog Number	C-Mount	F-Mount		
RT3 2.0 Mono No IR filter RT2500 N/A	RT3 2.0 Mono No IR filte	er RT2500	N/A		
RT3 2.0 Mono With IR filter RT2510 N/A	RT3 2.0 Mono With IR filter RT2510 N/A				

Specifications are typical and subject to change.



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

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