



CoolSNAP_{cf} Monochrome

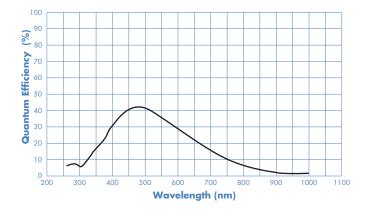
1392 x 1040 imaging array | 4.65 x 4.65-µm pixels

The CoolSNAP_{cf} Monochrome camera from Photometrics[®] incorporates low-noise electronics and moderate CCD cooling to achieve good low-light sensitivity. A megapixel sensor with small, square elements ensures that each image shows extraordinary detail. This feature, along with a high-speed digitizer, shutterless operation, and an interline-transfer CCD, makes the CoolSNAP_{cf} Monochrome camera ideal for high-resolution microscopy and inspection applications.

Features Benefits

20-MHz digitization	Fast image readout for high-speed focus and image capture		
1392 x 1040 imaging array 4.65 x 4.65-µm pixels	Resolves fine detail		
Interline-transfer, progressive-scan CC	CD Full resolution in every frame		
Flexible binning and readout	Increases light sensitivity while increasing the frame rate		
12-bit digitization	Quantifies bright and dim signals in the same image		
Thermoelectric cooling	Increases integration times for higher sensitivity		
C-mount	Easily attaches to microscopes, standard lenses, or optical equipment		
Subcompact, fanless design	Low profile allows easy setup		
Acquisition software	Captures, analyzes, and saves high-resolution images		
Video output (optional)	utput (optional) Compatible with standard video equipment		
PCI interface	rface High-bandwidth, uninterrupted data transfer		
PVCAM® Circular buffers Device sequencing	Supported by numerous third-party software packages Real-time focus Precise integration with shutters, filter wheels, etc. Compatible with Windows [®] 2000/XP, Mac OS X, and Red Hat [®] Linux [®] 9.0 (kernel version 2.4)		





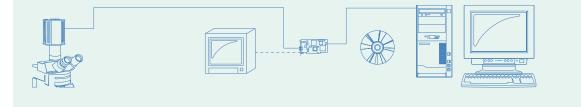
		Re	gion	
		1392 x 1040	512 x 512	256 x 256
Binning	1 x 1	11	21	38
	2 x 2	21	36	56
Binr	3 x 3	28	46	71
	4 × 4	36	56	83
	8 x 8	56	83	125

(Frames per second)

Note: Frame rates are measured at 20 MHz with 0-second exposure times.

Specifications

CCD image sensor	Sony® ICX205AL; interline-transfer, progressive-scan device with microlenses		
CCD format	1392 x 1040 imaging array 4.65 x 4.65-µm pixels 6.5 x 4.8-mm imaging area (optically centered) 1/2" format		
Grade	Sony Grade 0		
Gain	3 e/ADU		
Linear full well	9700 e-		
Read noise	15 e- rms @ 20 MHz		
Nonlinearity	<5%		
Digitizer type	12 bits @ 20 MHz		
Dark current	1.3 e-/p/s		
Operating environment	15 to 30°C ambient		
Dimensions	4.5" x 5.0" x 2.5" (1.9 lbs)		
I/O	TTL output while exposing (BNC connector)		
Video output (optional)	RS170/PAL selectable		



Note: Specifications are typical and subject to change.

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