



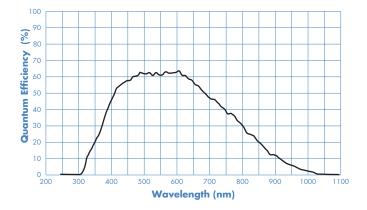


The CoolSNAPHQ Monochrome camera from Photometrics® is a fast, high-resolution digital imaging system designed for low-light scientific and industrial applications. This cooled CCD camera system provides 12-bit digitization at both 10 MHz and 20 MHz. The fine pitch of the pixels is ideally matched to the resolution of optical microscopes. Megapixel resolution and small pixels allow imaging of very fine detail, yet the pixels can be easily binned to improve sensitivity. New interline-transfer CCD technology provides high quantum efficiency, most notably in the near-infrared (NIR) portion of the spectrum.

## **Benefits Features**

10-MHz and 20-MHz digitization	Dual-mode readout for high-speed and high-sensitivity image capture		
1392 x 1040 imaging array 6.45 x 6.45-µm pixels	Resolves fine detail Ideally matched to optical microscope		
Interline-transfer, progressive-scan CC	D Electronic shuttering eliminates camera vibration and facilitates fast triggering		
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	Long integration times for higher sensitivity		
Enhanced quantum efficiency	Provides higher sensitivity than typical interline cameras (especially in the NIR)		
C-mount	Easily attaches to microscopes, standard lenses, or optical equipment		
Acquisition software	Captures, analyzes, and saves high-resolution images		
Video output	Compatible with standard video equipment		
PCI interface	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)		





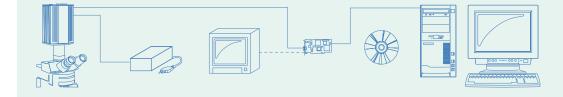
		Re	gion	
		1392 x 1040	512 x 512	256 x 256
Binning	1 x 1	10	19	30
	2 x 2	18	30	44
	3 x 3	24	38	51
	4 × 4	29	43	56

## (Frames per second)

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

## **Specifications**

Sony® ICX285; interline-transfer, progressive-scan device with microlenses		
1392 x 1040 imaging array 6.45 x 6.45-µm pixels 8.77 x 6.6-mm imaging area (optically centered)		
16,000 e- (single pixel) 30,000 e- (2 x 2 binned pixel)		
6 e- rms @ 10 MHz 8 e- rms @ 20 MHz		
<1%		
12 bits @ 20 MHz or 10 MHz (software selectable)		
100 ms/frame		
-30°C (regulated)		
0.05 e-/p/s @ -30°C		
0 to 30°C ambient, 0 to 80% relative humidity noncondensing		
TTL (trigger/status): trigger, invert, inhibit, exposing, interline shift, frame readout 8-bit TTL (programmable) 8-bit DACs (two)		
RS170/PAL selectable		



Note: Specifications are typical and subject to change.

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