

## CoolSNAP<sub>cf</sub> Color

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

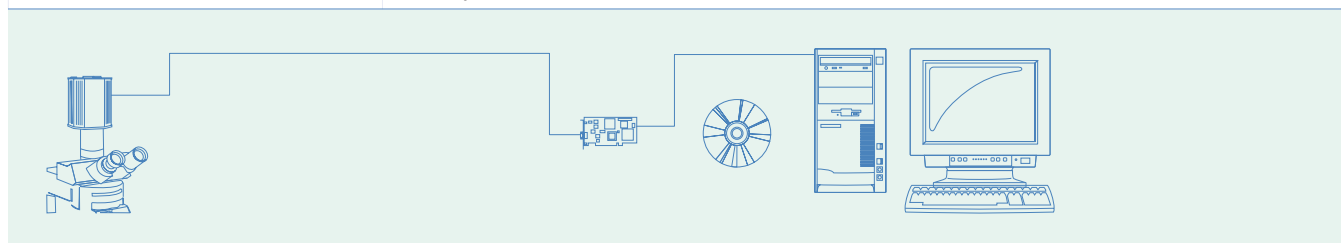


The CoolSNAP<sub>cf</sub> Color camera from Photometrics® incorporates low-noise electronics and moderate CCD cooling to achieve good low-light sensitivity and color fidelity. A megapixel sensor with small, square elements ensures that each image shows extraordinary detail. This feature, along with a high-speed digitizer, shutterless operation, and an interline-transfer CCD, makes the CoolSNAP<sub>cf</sub> Color camera ideal for high-resolution color microscopy.

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 CCD	Full resolution in every frame
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
Dual-mode operation	Allows fast grayscale focusing and high-resolution color imaging
Acquisition software	Captures, analyzes, and saves high-resolution images
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.  <i>Compatible with Windows® 2000/XP, Mac OS X, and Red Hat® Linux® 9.0 (kernel version 2.4)</i>

## Specifications

CCD image sensor	Sony® ICX205AK (color); interline-transfer, progressive-scan device with microlenses
CCD format	1392 x 1040 imaging array 4.65 x 4.65- $\mu$ m pixels 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)
Window	IR blocking (700-nm cutoff)
I/O	TTL output while exposing (BNC connector)
Color mask	RGB Bayer mosaic filter



Note: Specifications are typical and subject to change.

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