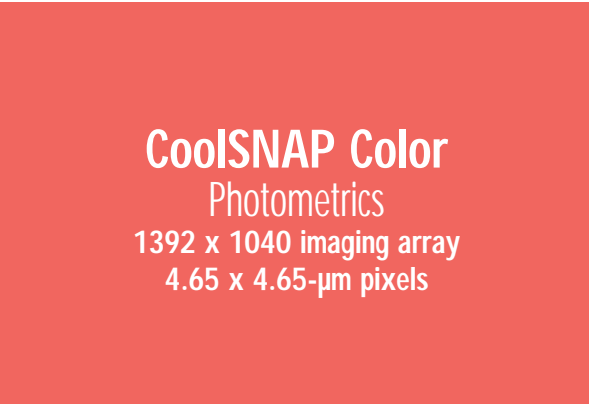




# D A T A S H E E T

C O O L S N A P S Y S T E M



The Photometrics CoolSNAP Color camera incorporates cooled CCD technology and low-noise electronics to achieve superior low-light sensitivity and color fidelity. A 1392 x 1040 resolution sensor with small, square pixels ensures that each image shows extraordinary detail. This feature, along with a high-speed digitizer, shutterless operation, and an interline CCD, makes the CoolSNAP Color camera ideal for high-resolution color microscopy.

F E A T U R E S	B E N E F I T S
5-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
Progressive-scan CCD	Full resolution in every frame
12-bit digitization	Quantifies both bright and dim signals in the same image
Thermoelectric cooling	Increases integration times for higher sensitivity
C-mount	Easily attaches to microscope
Compact camera head	Low profile on microscope
PCI interface	Works with PC or Macintosh
Dual-mode operation	Allows fast gray-scale focusing and high-resolution color imaging
Acquisition software	Capture, analyze, and save color and monochrome images





# D A T A S H E E T

C O O L S N A P S Y S T E M

## S P E C I F I C A T I O N S

CCD image sensor	Sony ICX205AK color interline progressive-scan HAD CCD with microlenses
CCD format	1392 x 1040 imaging pixels; 4.65 x 4.65- $\mu$ m pixels; 1/2" format
Grade	Sony Grade 0
Gain	3 e <sup>-</sup> /ADU
Linear full well	9700 e <sup>-</sup>
Read noise (5 MHz)	14 e <sup>-</sup> rms
Nonlinearity	<2%
Readout bits/speed	12 bits @ 5 MHz
Dark current	14 e <sup>-</sup> /p/s @ 20°C
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.

