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# Photometrics 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.

**Primary applications**

- **Histology**
- **DIC microscopy**
- **Immunofluorescence**
- **FISH**
- **Fixed-cell GFP imaging**
- **High-resolution time-lapse microscopy**

| Features | Benefits |
|---|---|
| 20-MHz readout | Fast image readout for high-speed focus and image capture |
| 1392 x 1040 imaging array<br>4.65 x 4.65-µm pixels | Resolves fine detail |
| Interline-transfer, progressive-scan CCD | 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 |
| PCI interface | High-bandwidth, uninterrupted data transfer with no dropped frames |
| PVCAM®<br>Circular buffers<br>Device sequencing | Supported by numerous third-party software packages<br>Real-time focus<br>Precise integration with shutters, filter wheels, etc.<br>*Compatible with Windows® XP/Vista 32, Mac OS X, and Linux® (kernel versions 2.4 and 2.6.8)* |

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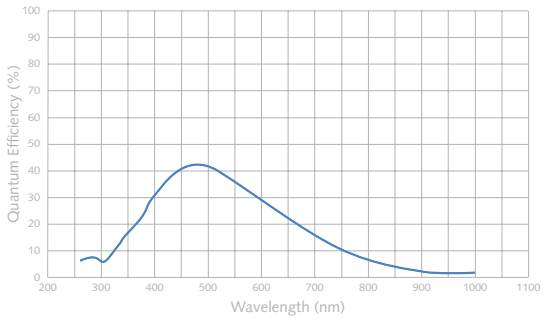


Region

| Binning | 1392 x 1040 | 512 x 512 | 256 x 256 |
|---|---|---|---|
| **1 x 1** | 11 | 21 | 38 |
| **2 x 2** | 21 | 36 | 56 |
| **3 x 3** | 28 | 46 | 71 |
| **4 x 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<br>4.65 x 4.65-µm pixels<br>6.5 x 4.8-mm imaging area (optically centered)<br>1/2″ format |
| Grade | Sony Grade 0 |
| Gain | 3 e-/ADU |
| Linear full well | 9700 e- |
| Read noise | 10 e- rms @ 20 MHz |
| Nonlinearity | <5% |
| Digitizer type | 12 bits @ 20 MHz |
| Dark current | <1 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) |

Note: Specifications are typical and subject to change.

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