



Advanced Scientific Grade CCD imaging for Microscopy

powerful software - simple interface - superior images

Thermoelectrically-Cooled Monochrome CCD Camera

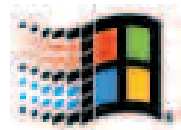
Developed exclusively for quantitative specimen analysis in extreme low-light, darkfield, fluorescence or NIR imaging applications where high quantum efficiency and low noise requirements are paramount.

- **4-Megapixel Imaging with a 21.4mm CCD Array of 2048 x 2048 pixels at 7.4 x 7.4 microns each**
Provides the microscope operator with the entire field-of-view digitally as seen through the microscope oculars and delivers exceptional image detail in challenging imaging applications with a wide dynamic range.
- **12-Bit CCD Monochrome Imaging**
12-bit high resolution monochrome images and increased sensitivity - crucial for a wide range of imaging applications including:
 - *Monochrome fluorescence imaging*
 - *FISH*
 - *Quantitative BrightField and DarkField imaging applications*
 - *DNA analysis*
 - *NIR imaging*
- **Optronics Exclusive PictureFrame™ 2.0 Imaging Application**
Comprehensive image processing suite with measurement and annotation, scale bar, AVI file-compliant time lapse imaging, automated image archiving and real-time pseudo coloring and six position image mixing functionality.
- **Intuitive User Interface**
Powerful software – simple interface means images are captured effortlessly with Optronics point and shoot simplicity.
- **FireWire® Interface**
Offers “Plug and Play” connectivity from a desktop or laptop computer with data transfer up to 400 mbs.

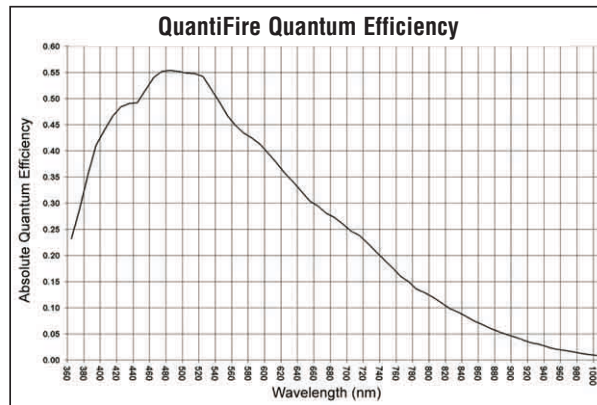
Technical Specifications

QUANTIFIRE

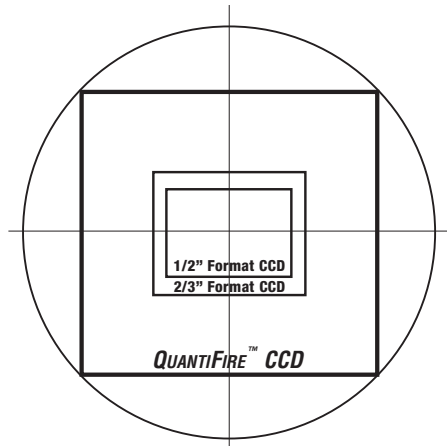
CCD Array:	2048 x 2048 pixels
Pixel Size:	7.4 x 7.4 micron pixels
Well Depth:	40,000 electrons
Active Area:	15.2mm x 15.2mm, 21.4mm diagonal
Cooling:	Thermoelectrically cooled to 20° below ambient
Computer Interface:	IEEE 1394 (FireWire®), 6 pin
Software:	Optronics native application PictureFrame™, SDK available, Twain, Image-Pro®
Optical Interface:	F-mount
Electronic Shutter:	Integration time to 20 minutes
Frame Rates:	5 FPS @ 2048 x 2048 9 FPS @ 1024 x 1024 (2x2 binning) 12 FPS @ 680 x 680 (3x3 binning) 15 FPS @ 512 x 512 (4x4 binning) 18 FPS @ 408 x 408 (5x5 binning) 38 FPS @ 64 x 64 (subframed mode)
Binning Modes:	1 x 1, 2 x 2, 3 x 3, 4 x 4, 5 x 5
Subframing:	64 - 2048 lines x 64 - 2048 columns
Physical Dimensions:	5.3 in (W) x 5.3 in (W) x 5.0 in (H)
System Recommendations:	PC - 1 GHZ or better PC Running Windows® 98 SE/2000/XP/Me 1600 x 1200 32-bit color 512 MB Ram MACINTOSH - G4 OS X Version 10.2 or better 512 MB Ram



Spectral Response Curve:



Full 22mm Field-of-View:



optronics.com/cameras (800) 796-8909

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