

# QIClick™

**High Speed Imaging –  
View a cell at 30fps**

**1.4 Mega Pixel for High  
Resolution Images**

**Highly Versatile**

The QImaging QIClick™ digital CCD camera provides solid performance and combines speed with resolution which allows for great adaptability to all imaging requirements.

The IEEE 1394 FireWire Interface allows for Plug and Play simplicity with installation and ensures that a standard interface is available on all computers.

The QIClick comes with QCapture Suite out of the box for quick software installation. It also comes with extensive application support allowing for easy integration into any setup.

## applications

- **Brightfield, Phase-Contrast, & Darkfield Microscopy**
- **Pathology, Histology, & Cytology**
- **Fluorescence Microscopy**
- **Green Fluorescent Protein (GFP) Applications**
- **FISH**
- **Ca++ Ratio Analysis**
- **Motility & Motion Analysis**
- **DNA Analysis**
- **Metallurgical Microscopy**
- **Semiconductor Inspection**
- **Manufacturing Quality Control**
- **Failure Analysis**
- **Forensic Analysis**

## Scientific Digital CCD Camera – Monochrome or Color



features	benefits
High Quantum Efficiency	▪ Sensitivity for demanding imaging applications
High-Resolution, 1.4-Million-Pixel Sensor	▪ Highly detailed, sharp images
High-Speed Readout	<ul style="list-style-type: none"> <li>▪ Previewing &amp; focusing in real time</li> <li>▪ 110fps with 8x8 binning &amp; ROI</li> <li>▪ 10fps full resolution @ 12 bits</li> <li>▪ Ideal for automated imaging applications</li> </ul>
Low-Noise	▪ Quantitation & imaging of low light levels
Flexible Exposure Control from 10µs to 17.9min	▪ Optimal integration over a wide range of light levels
External Sync & Trigger	▪ Tight synchronization with flashlamps, automated filters, shutters, & microscope stages
Binning	<ul style="list-style-type: none"> <li>▪ Increases sensitivity for quantitation &amp; imaging of very low light levels</li> <li>▪ Increases frame rate – 30fps @ 512x512 with 2x2 binning</li> </ul>
IEEE 1394 FireWire™ QImaging Fast 1394 Technology	<ul style="list-style-type: none"> <li>▪ Simple connectivity</li> <li>▪ Ease of use &amp; installation</li> <li>▪ Portability with laptop computer</li> <li>▪ Simultaneous use of multiple cameras through a single port</li> <li>▪ Single-cable operation (no external power supply or control unit)</li> </ul>
Extensive Application Software Support	<ul style="list-style-type: none"> <li>▪ Grows with your imaging needs and requirements</li> <li>▪ Choose from a large selection of life science &amp; industrial software for microscopy, machine vision, &amp; video-streaming functions</li> </ul>

# QIClick Specifications

## ccd sensor

Light-Sensitive Pixels	1.4 million; 1392 x 1040
Binning Modes	2x2, 4x4, 8x8
Exposure/Integration Control	10 $\mu$ s to 17.9min in 1 $\mu$ s increments
Sensor Type	Sony <sup>®</sup> ICX285 progressive-scan interline CCD (monochrome or color)
Pixel Size	6.45 $\mu$ m x 6.45 $\mu$ m
Linear Full Well	18,000e- (22,000e- with 2x2 binning)
Read Noise	8e-
Dark Current	1.5 e/p/s – Passively cooled to ambient temperature for low dark current
Digital Output	12 bits
Readout Frequency	20, 10, 5, 2.5MHz
Frame Rate	10fps full resolution @ 12 bits (165fps maximum with binning and ROI functions)

## camera

Computer Platforms/ Operating Systems	Windows <sup>®</sup> 7, Vista and XP (32/64 bit)
Digital Interface	IEEE 1394 FireWire <sup>™</sup>
External Trigger	TTL Input (optically coupled)
Trigger	<ul style="list-style-type: none"> <li>▪ Exposures</li> <li>▪ Sequences of images</li> </ul>
External Sync	TTL Output (optically coupled)
Gain Control	0.7 to 30x
C-mount	<ul style="list-style-type: none"> <li>▪ 1X: High Resolution Imaging</li> <li>▪ 0.7X: Large Field of View</li> </ul>
Power Requirements	<ul style="list-style-type: none"> <li>▪ 6 Watts</li> <li>▪ Supply through FireWire Interface (External supply required for Laptops)</li> </ul>
Weight	640g
Warranty	2 years (Additional +5 year option available)
Operating Environment	0 to 50°C (32 to 122°F)
Storage Temperature	-10 to 60°C
Humidity	Less than 80% non-condensing at 35°C (95°F)

## included

- **QIClick Digital CCD Camera**
  - Model: QIClick-F-M-12 (monochrome, 12-bit)
  - Model: QIClick-F-CLR-12 (CCD color, Bayer Mosaic, 12-bit)
- IEEE1394 FireWire cable
- IEEE1394 FireWire PCIe card
- QCapture software
- Access to SDK

## camera options

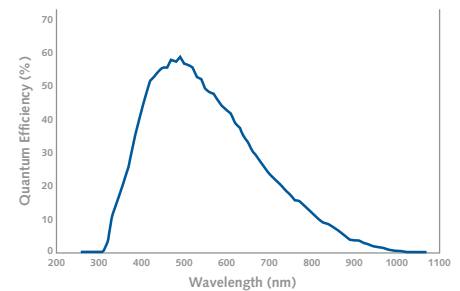
- Removable **IR-Cutoff Filter**

- **RGB Color Filter** for monochrome cameras (F-mount interface required), refer to spec sheet for more details



- Performance Assurance Program (**extended warranty**)

## spectral response



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\*Refer to Qimaging website for detailed listing of supported operating systems.  
 Note: Specifications are typical and subject to change.

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