

# QIClick™

## Versatile Scientific CCD Cameras

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

**1.4 Mega Pixel for High  
Resolution Images**

QIClick is an ideal camera choice for a wide variety of imaging applications. Available in color or monochrome, both models can be actively or passively cooled, providing a solution for nearly any imaging requirement.

Right out of the box, you will depend on the QIClick for worry-free operation. It integrates with a wide variety of microscope control software, or QImaging's capture interface to easily generate publication-quality images. Application support is available by phone, email or online to ensure the QIClick will be a workhorse in your lab for years to come.



### 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**

features	benefits
High Quantum Efficiency	<ul style="list-style-type: none"> <li>▪ Sensitivity for demanding imaging applications</li> </ul>
High-Resolution, 1.4-Million-Pixel Sensor	<ul style="list-style-type: none"> <li>▪ Highly detailed, sharp images</li> </ul>
High-Speed Readout	<ul style="list-style-type: none"> <li>▪ Previewing and focusing in real time</li> <li>▪ 110fps with 8x8 binning and ROI</li> <li>▪ 10fps full resolution at 12-bits</li> <li>▪ Ideal for automated imaging applications</li> </ul>
Low-Noise	<ul style="list-style-type: none"> <li>▪ Quantitation and imaging of low light levels</li> </ul>
Flexible Exposure Control from 10µs to 17.9min	<ul style="list-style-type: none"> <li>▪ Optimal integration over a wide range of light levels</li> </ul>
External Sync and Trigger	<ul style="list-style-type: none"> <li>▪ Tight synchronization with flashlamps, automated filters, shutters, and microscope stages</li> </ul>
Binning	<ul style="list-style-type: none"> <li>▪ Increases sensitivity for quantitation and imaging of very low light levels</li> <li>▪ Increases frame rate – 30fps at 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 and 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 and industrial software for microscopy, machine vision, and 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® 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 for passively cooled models <0.4 e/p/s at 25°C for actively cooled models
Digital Output	12-bits
Readout Frequency	20, 10, 5, 2.5MHz
Frame Rate	10fps full resolution at 12-bits (165fps maximum with binning and ROI functions)
Cooling	Peltier thermoelectric cooling to 25°C below ambient

## camera

Computer Platforms/ Operating Systems	Windows® 7, Vista and XP (32/64-bit)
Digital Interface	IEEE 1394 FireWire™
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
Cooling	Peltier thermoelectric cooling to 25°C below ambient
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	Supply through FireWire Interface (External supply required for Laptops)
Weight	640g for passively cooled models 850g for actively cooled models
Warranty	2 years (Additional +3 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)

## camera models

Includes: IEEE 1394 FireWire™ cable, IEEE 1394 PCIe card, QImaging software interface, and access to SDK

### ■ QIClick Monochrome

Model: QIClick-F-M-12 (monochrome, 12-bit)

### ■ QIClick Color

Model: QIClick-F-CLR-12 (CCD color, Bayer Mosaic, 12-bit)

### ■ QIClick Cooled

Model: 01-QIClick-R-F-M-12-C

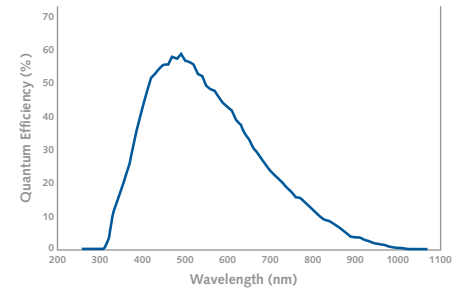
### ■ QIClick Cooled Color

Model: 01-QIClick-R-F-CLR-12-C

## camera options

- Removable IR-Cutoff Filter
- Performance Assurance Program (extended warranty)

## spectral response



Tel 604.530.5800 ■ Fax 604.539.1825 ■ info@qimaging.com  
www.qimaging.com



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

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