

QIClick™

**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**

Versatile Scientific CCD Cameras



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

QIClick Specifications

ccd sensor

Light-Sensitive Pixels	1.4 million; 1392 x 1040
Binning Modes	2x2, 4x4, 8x8
Exposure/Integration Control	10µs to 17.9min in 1µs increments
Sensor Type	Sony® ICX285 progressive-scan interline CCD (monochrome or color)
Pixel Size	6.45µm x 6.45µm
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"> ▪ Exposures ▪ Sequences of images
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"> ▪ 1X: High Resolution Imaging ▪ 0.7X: Large Field of View
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-R-F-M-12 (monochrome, 12-bit)

■ QIClick Color

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

■ QIClick Cooled

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

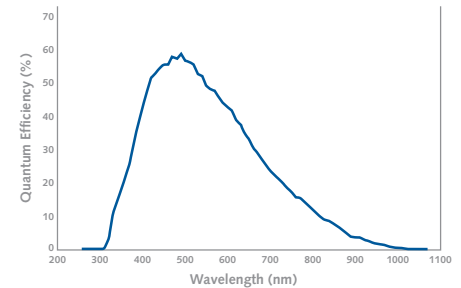
■ QIClick Cooled Color

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

camera options

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

spectral response



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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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