QIMAGING® *DIGITAL IMAGING MADE EASY*

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

QI series

features	benefits
High Quantum Efficiency	▪ Sensitivity for demanding imaging applications
High-Resolution, 1.4-Million-Pixel Sensor	▪ Highly detailed, sharp images
High-Speed Readout	▪ 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	▪ Quantitation and imaging of low light levels
Flexible Exposure Control from 10µs to 17.9min	▪ Optimal integration over a wide range of light levels
External Sync and Trigger	▪ Tight synchronization with flashlamps, automated filters, shutters, and microscope stages
Binning	▪ 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	▪ 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	▪ 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 25ºC 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 25ºC 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	▪ Exposures ▪ Sequences of images
External Sync	TTL Output (optically coupled)
Gain Control	0.7 to 30x
Cooling	Peltier thermoelectric cooling to 25ºC below ambient
C-mount	▪ 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-F-M-12
   (monochrome, 12-bit)

▪ **QIClick Color**

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

▪ **QIClick Cooled**

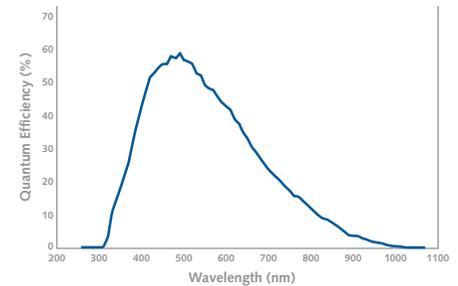   Model: 01-QIClick-R-F-M-12-C

▪ **QIClick Cooled Color**

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

camera options

▪ Removable **IR-Cutoff Filter**

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

spectral response

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QI_CLICK_DS_Rev_A6