

DIGITAL IMAGING MADE EASY



PRODUCT DATASHEET

ROLERA bolt

Video Rate CMOS camera for High Quality Documentation

Introducing the Rolera Bolt[™] CMOS camera from QImaging.

As a cost-effective solution, the Rolera Bolt is designed to meet the imaging requirements for a diverse set of applications ranging from IR-DIC to whole organism motility studies including fluorescence documentation of C. elegans and Drosophila larvae. Capable of streaming at 30 full frames per second with 1.3 megapixel resolution and 3e-read noise, the Rolera Bolt is perfect for tracking dynamic events with detailed spatial and temporal resolution.

The USB 2.0 digital interface allows easy installation with a single cable for both power and data communication and eliminates the need for expensive framegrabbers or an external power supply. The compact design makes it easy to mount and transfer the camera between microscopes and labs providing the perfect imaging workhorse.

The Rolera Bolt is compatible with many popular imaging applications and includes the QCapture Software for Windows which offers real time image preview and capture. A Software Development Kit (SDK) is also available for interfacing with custom software. As with every QImaging camera, the Rolera Bolt is protected with the unsurpassed Two Year Warranty.

Video Rate CMOS Microscopy Camera



ROLERA BOLT Specifications

CMOS sensor	
Light-Sensitive Pixels	1280 x 1024
Exposure/Integration Control	30µs to 1.9 sec
Sensor Type	Sony [®] IMX035 CMOS
Pixel Size	3.63µm x 3.63µm
Linear Full Well	17,000e-
Read Noise	Зе-
Dark Current	NA - Pixel-Freeze Technology™
Digital Output	8 bits/12 bits
Readout Frequency	24MHz
Frame Rate	30fps full resolution
camera	
Computer Platforms/ Operating Systems	Windows 8 (64 bit), Windows 7 (64 bit) Refer to the QImaging website for the most recent list of minimum computer requirements
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Operating Systems	Refer to the QImaging website for the most recent list of minimum computer requirements
Operating Systems Digital Interface	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0
Operating Systems Digital Interface Gain Control	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x 1X: High Resolution Imaging
Operating Systems Digital Interface Gain Control Optical Interface	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x • 1X: High Resolution Imaging • 1/3" - C-mount optical format
Operating Systems Digital Interface Gain Control Optical Interface Threadmount	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x 1X: High Resolution Imaging 1/3" - C-mount optical format 1/4" - 20 mount 2.5W at 5 volts
Operating Systems Digital Interface Gain Control Optical Interface Threadmount Power Requirements	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x • 1X: High Resolution Imaging • 1/3" - C-mount optical format 1/4" - 20 mount • 2.5W at 5 volts • Supply through USB Interface (External supply required for Laptops)
Operating Systems Digital Interface Gain Control Optical Interface Threadmount Power Requirements Weight	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x • 1X: High Resolution Imaging • 1/3" - C-mount optical format 1/4" - 20 mount • 2.5W at 5 volts • Supply through USB Interface (External supply required for Laptops) 540g
Operating Systems Digital Interface Gain Control Optical Interface Threadmount Power Requirements Weight Warranty	Refer to the QImaging website for the most recent list of minimum computer requirements USB 2.0 1x to 14x • 1X: High Resolution Imaging • 1/3" - C-mount optical format 1/4" - 20 mount • 2.5W at 5 volts • Supply through USB Interface (External supply required for Laptops) 540g 2 years (Additional +5 year option available)

applications

- DIC, Phase-Contrast, Brightfield and Darkfield Microscopy
- Whole Organism Motility Imaging (C. Elegans, Drosophila, Amoebas, etc.)
- Video Rate Fluorescence Documentation
- Semiconductor Surface Inspection
- Metallurgical Microscopy
- Failure Analysis

included

- Rolera Bolt CMOS
 Model: OI-ROL-BOLT-M-12 (monochrome, 12-bit)
- USB 2.0 cable
- QCapture software for PC
- Access to SDK
- Limited Warranty

camera options

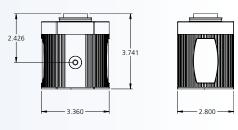
• 0.5x Coupler for Nyquist Sampling with 60x Objective

Model: 0I-ROL-BOLT-CPLR-LEICA Model: 0I-ROL-BOLT-CPLR-OLYMPUS Model: 0I-ROL-BOLT-CPLR-NIKON Model: 0I-ROL-BOLT-CPLR-ZEISS

 Performance Assurance Program (extended warranty)

spectral response





*Refer to Qlmaging website for detailed listing of supported operating systems. Note: Specifications are typical and subject to change. Rolera and the Rolera Botl logo are trademarks of Qlmaging Corporation. Qlmaging is a registered trademark of Qlmaging Corporation. Other brand and product names are the trademarks or

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QI_BOLT_DS_Rev_A3