

WEISS

IMAGING AND SOLUTIONS GmbH

Bildverarbeitung und Entwicklungen
für Forschung und Industrie

QEDImaging™

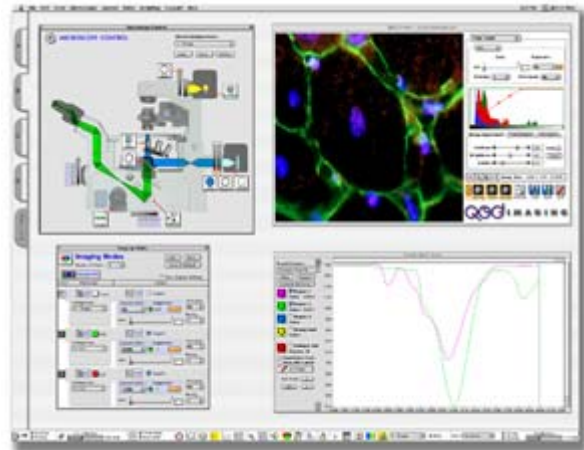
The Most User-friendly Solution for Live Cell Imaging

QEDImaging products are used by life science researchers who need to automate acquisition, analysis, and storage for live cell imaging. Unlike other general imaging applications, QED Imaging products are dedicated to image acquisition and analysis for live cell research.

QED Imaging Solutions Include:

QEDInVivo™

The ultimate solution for live cell imaging applications, QED InVivo offers full automated process control of live cell time-lapse experiments like Calcium Ratio, FRET and other dynamic processes.



QED Imaging software delivers accuracy, speed, and anticipates your workflow.

* Image courtesy of Dr. Simon Watkins, University of Pittsburg.

QEDExpIO™

QED ExpIO, a Plug-in Module for QED InVivo, communicates with a variety of equipment to enable time-lapse imaging coordinated with vital systems control and measurement.

QEDImage™

QED Image enables fast multi-dimensional image acquisition. It provides full control of an extended range of microscopes, filter wheels, motorized stages, focus modules, lasers and many other automation hardware options.

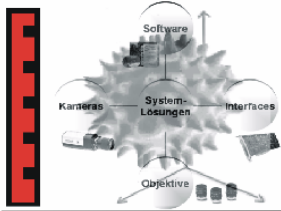
QEDCapture™

QED Capture offers an easy-to-use image acquisition interface while utilizing the full precision and resolution of your camera.

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Key Benefits:

- **Fast and Easy to Use**
QED Imaging products offer a comprehensive graphical workflow that is so intuitive, you will already know how to use it.
- **Join an Imaging Community**
When you use QED Imaging software, you are instantly part of a worldwide imaging community. Our imaging training courses and online users forum allow you to expand your imaging knowledge and learn new techniques from others.

Acquisition of QED Imaging by Media Cybernetics

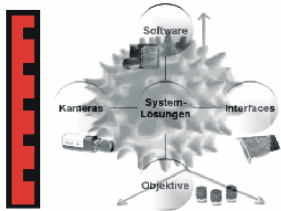
January 26, 2004 - Media Cybernetics Inc., the leading scientific image analysis software provider is pleased to announce acquisition of the assets of QED Imaging of Pittsburgh, PA. QED provides sophisticated software tools and services for advanced life science microscopy. With this announcement, the staff of QED will remain unchanged. President and founder, Michel Nederlof, will assume the role of Vice President of Advanced Microscopy Development at Media Cybernetics.

"The acquisition of QED's scientific imaging business greatly enhances our product reach into life science microscopy. By adding both a Macintosh and PC product line as well as an elegant graphical user interface with a workflow designed for automated live cell microscopy, Media Cybernetics is well positioned to address the evolving needs of the research community. We look forward to realizing the synergies of our technologies and establishing deeper relationships with more customers in this growing market," said Media Cybernetics' President, Doug Paxson.

"The acquisition by Media Cybernetics presents an excellent opportunity for us to bring our products to a larger set of potential users worldwide," said Nederlof. "It will also give us the infrastructure to strengthen our product development and QA processes."

Both the flagship Image-Pro® family and the QED software product lines will be available via authorized reseller channels worldwide. Media Cybernetics will provide all existing QED software customers with ongoing support, maintenance and further development of the QED product line.

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QED Imaging™

Features

Acquire

- Simplified Camera Control
- Automated Microscope Control
- Tiling, Mosaic, Slide and Well Scanning
- Multi-dimensional Acquisition
- Multi-color Imaging
- Time-lapse Imaging and Burst Acquisition
- 3D, Z-series, and Burst 3D with Piezo

Analyze

- Morphometric Measurements, Analysis & Classification
- Colocalization, Translocation FISH, and Fluorescence
- Ratio Imaging
- FRET Analysis
- Cell Tracking

Manage & Discover

- Vital Systems Control & Measurement
- Signals and Systems Control
- Data Analysis, Recording, and Reporting

Acquire

Simplified Camera Control

Use your camera's full precision and resolution without worrying about the technical details.

- Change Exposure and Gain automatically even when changing between binning and fast live modes.
- Use the Live Histogram to adjust the camera and the illumination of your image.
- Automatically set Brightness and Contrast over the full dynamic range of your camera.
-

Automated Microscope Control

The Microscope Control Tool provides interactive and automated control for a variety of microscope systems and additional hardware. Easily control multiple shutters, filtercube changers, scanning stages, focus controls, objective selection, and spectral devices (laser, monochromator, or AOTF) - all from a single window.

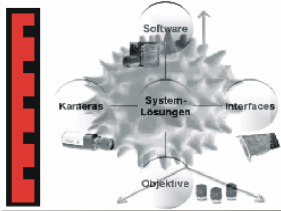


Control high-speed microscope systems using an intuitive graphical workflow

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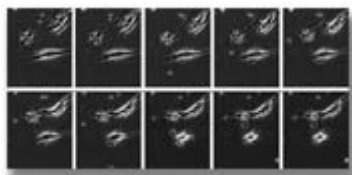
Tiling, Mosaic, Slide and Well Scanning

Perform mosaic collage reconstruction and display using the meta data of a stage navigator scan.

Multi-dimensional Acquisition

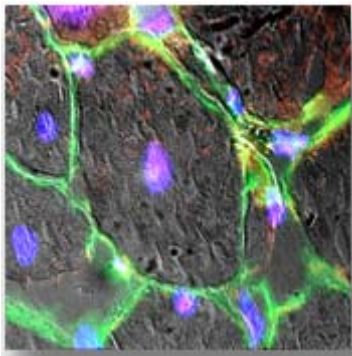
QED Imaging makes multi-dimensional imaging easy while optimizing the speed and accuracy of your acquisition.

Time-lapse Imaging and Burst Acquisition



Perform high-speed imaging and motion analysis. Work with high-speed time lapse acquisition, multiple image interval definition, and burst acquisition

Multi-color Imaging



QED Imaging includes 3D, multi-color image acquisition at the click of a button. Define any combination of acquisition flow using an intuitive user interface. No scripting is needed.

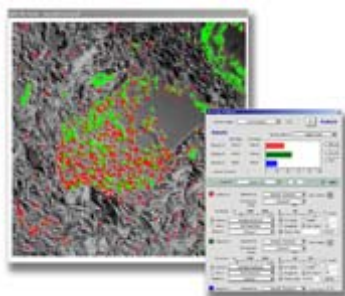
Acquire multi-color images
 * Image courtesy of Dr. Simon Watkins, University of Pittsburgh.

3D, Z-series, and Burst 3D with Piezo

QED Imaging supports fast XYZ scans including well plates and whole slide scans. The 3D Acquire Tool offers easy control of focus drives.

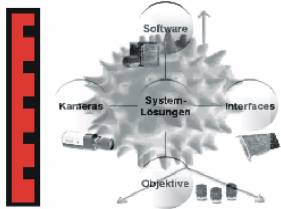
Analyze

Morphometric Measurements, Analysis & Classification

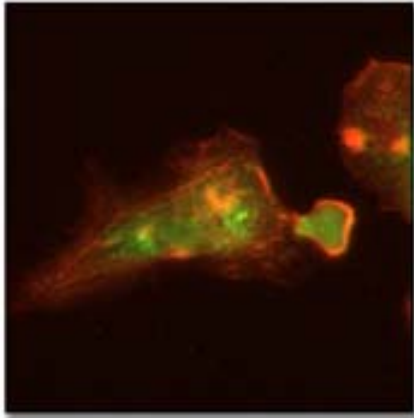


QED Imaging supports control and automation of single field or high speed scanning microscopy applications, such as cell counting, rare event detection, tissue analysis, visualization and archiving of tissue samples.

Group objects in classes based on their measurements



Colocalization, Translocation, FISH, and Fluorescence

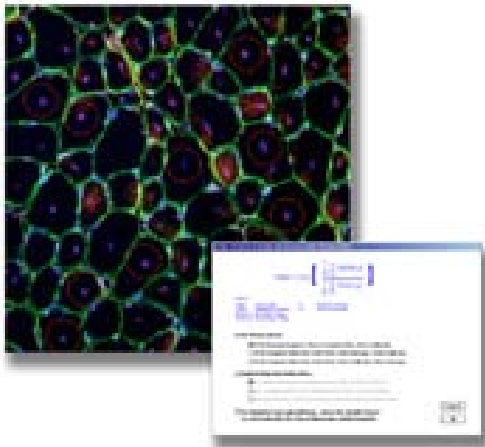


Access all the necessary tools to quantitatively measure colocalization and effectively interact with the presentation of area, intensity distribution and information. As a result, statistical analysis can quickly be provided for both whole image statistics and user-defined ROI statistics.

Measure colocalization of separate gray scale images or within a color image

* Image courtesy of Dr. Simon Watkins, University of Pittsburgh.

Ratio Imaging



QED Imaging gives you the power to analyze your ratio experiment independent of complexity or speed. Easily configure your work flow, while experiencing optimized system acquisition and analysis. QED Imaging supports essential procedures such as automatic background subtraction, and provides real-time trend charting of time-lapse images. QED Imaging can be synchronized with automated drug delivery or electrophysiology systems and other hardware.

Easily configure your ratio imaging workflow while experiencing optimized system acquisition and analysis

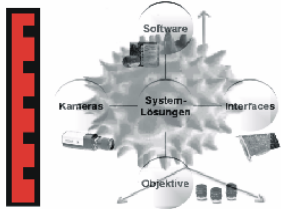
* Image courtesy of Dr. Simon Watkins, University of Pittsburgh.

FRET Analysis

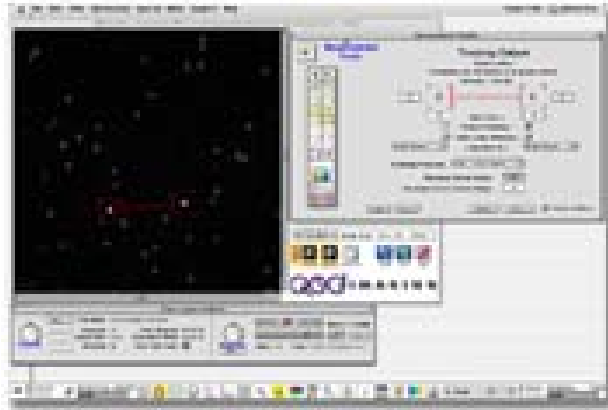


QED Imaging provides powerful and configurable acquisition and analysis tools to supplement and significantly enhance the data analysis capabilities for FRET applications.

Perform real-time FRET analysis



Cell Tracking



Follow the movement of tagged particles through time, including fluorescence-labeled cell surface molecules, microtubules, nucleic acids, lipids, and other objects with sub-pixel resolution.

Analyze the motion in images using spatial calibration, point-to-point measurements, and automated time stamping of images.

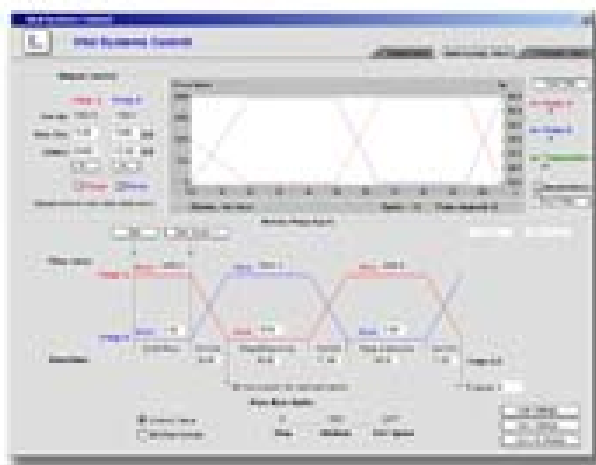
Automatically track the movement of objects

Manage and Discover

Vital Systems Control & Measurement

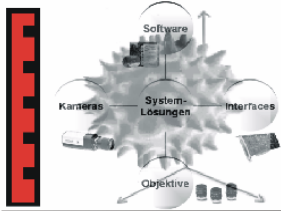
When you combine QED InVivo with QED ExpIO, you can acquire data from analog and digital inputs. Sampling is synchronized with your imaging and can be plotted on a live trend chart.

These combined QED solutions include analog and digital outputs to control valves and pump systems or myograph systems which enable you to configure fully automated live cell experiments. Supported hardware include the Biopetechs Live Cell environmental systems.



Easily configure pump operation profiles to either alternate flow or stimulate and refresh the medium. Manually control the valves or script valve operations into time-lapse experiments. With QED InVivo and ExpIO, you can also control the temperature and CO2 in environmental chambers.

Easily setup pump speed profiles to alternate the flow or stimulate and refresh the medium

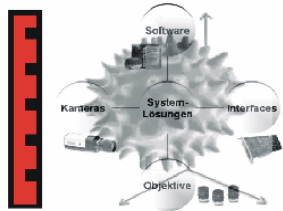
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Signals and Systems Control

A variety of signals can be generated from various components. With QED Imaging, you can control these devices or opt to have your devices control QED. You can trigger a burst acquisition when your temperature reaches a preset level or trigger an event each time you capture an image.

Data Analysis, Recording, and Reporting

Automatically measure multiple objects in binary images with QED Imaging's measurement tool. The Binary Operations module allows Boolean logic to be applied to binary images. Perform straight line, irregular line, point counts, object tracking, and custom measurements based on your requirements. You can then directly export this data into industry standard software programs for statistical analysis.



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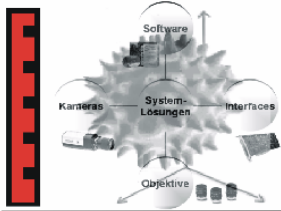
QED Imaging Product Comparison

Features	QED InVivo	QED ExpIO	QED Image	QED Capture
Hardware Control & Multi-dimensional Imaging				
User Assistance	✓	✓	✓	✓
Camera Control	✓	✓	✓	✓
Fully-Automated Microscope Control	✓	✓	✓	
Multi-Color Imaging	✓	✓	✓	
Time-Lapse Imaging & Burst Acquisition	✓	✓	✓	
3D, Z-Series & Burst 3D with Piezo	✓	✓	✓	
Tiling, Mosaic, Slide and Well Scanning	✓	✓	✓	
Application Support				
Ratio & Calcium Imaging	✓			
User-configurable FRET	✓			
Colocalization, FISH & Fluorescence	✓			
Cell Counting & Classification	✓		✓	
Cell Tracking	✓			
System Control				
Vital Systems Control & Measurement	✓	✓		
Signals & Systems Control	✓	✓		
Data Analysis	✓	✓	✓	
Technical Support				
Support from Media Cybernetics	✓	✓	✓	✓

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System Requirements

Macintosh:

- PowerPC Processor
- OS 10.3 or later
- Monitor with at least 256 colors and 1280x1024 resolution
- RAM: 512MB minimum, 1024MB recommended for Time-Lapse Module

Windows:

- Pentium Processor
- Windows XP Pro SP1
- Monitor with SVGA or better resolution
- RAM: 512MB to 1024MB required for Time-Lapse module