Instant Co-Localization

for Dual-Fluorescence Emission

pco.®
X-Cite®

pco.edge 9.4 bi CLHS
sCMOS Camera

VisiView
Microscopy Software

X-Cite TETREM™
Illumination

akrima λ2
Image Splitter

excelitas®

About the Demonstration

This demonstration shows the next generation of image-splitting applications that require only a single camera. When combined with a stable multi-wavelength LED light source and a dichroic image splitter, two fluorescent color images can be captured side-by-side on the same sensor for fast and straightforward co-localization. This approach simplifies overlay and alignment, enabling clear visualization of multiple biomarkers—even in moving cells or tissues.

pco.edge 9.4 bi CLHS sCMOS Camera

This high-performance camera is perfectly suited for side-by-side acquisition in parallel multi-channel imaging. Its efficient thermal management and CLHS FOL interface ensure accurate, reliable data capture, while the flexible lens adapter system allows easy integration into diverse optical setups.

KEY FEATURES

- High resolution
- Large sensor diagonal
- Rapid frame rates possible
- Ultra-low readout noise

X-Cite TETREM LED Illumination System

This powerful 4-channel light source provides excitation for key fluorophore bands from DAPI to Cy5. It supports individual or simultaneous LED operation, making it suitable for both multi-band and standard filter cubes. Its compact design is ideal for routine use or for upgrading a microscope.

KEY FEATURES

- Fast color-switching
- Adjustable intensity
- smartDIAL™ for intuitive control
- Compact and budget-friendly

In cooperation with:

λ2-Image Splitter

This image splitter is a dual-channel optical device for fluorescence microscopy. It is designed to split light into two wavelength channels for simultaneous capture on a single camera sensor. Engineered for precision and ease of use, setup and alignment can be completed within minutes.

KEY FEATURES

- Quick-release camera mount
- Incorporated ByPass function
- Intuitive operation
- Compact and easy to integrate

akrima

VisiView Microscopy Software

This software is specifically designed for fast and intuitive control of microscope systems in combination with their peripherals. It supports synchronized multi-channel acquisition making it especially well-suited for co-localization and other advanced multi-color imaging workflows.

KEY FEATURES

- Broad microscope compatibility
- Intuitive interface
- Single- and multichannel view
- Automated hardware control

VISITRON SYSTEMS

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