



Critical to fluorescent imaging is the ability to setup complex multi-spectral acquisition for the fluorescent labels and store the settings for later use. FluoImager™ offers the ability to design an unlimited number of sequential acquisition protocols to suit a wide range of experimental demands.

The FluoImager module extends the capability of MicroImager™ and ArrayImager™. In this sense primary Visiopharm applications can be scaled to suit differing experimental needs.

Technical overview

Multi-channel, multi-dimensional fluorescence imaging tools

Allows for unattended multispectral image acquisition combining fluorescence, bright field and DIC

Create overview image of tissue section using any image modality (bright field or fluorescent signal)

Detect and delineate regions of interest in tissue section

Specify combinations of imaging modalities to use for capture of high magnification images of tissue section

Individually adjust the parameters for each color band in an image or image stack

Acquire Z-stacks of multi-band images and series of Z-stacks at multiple sampling positions (requires MicroImager™ or ArrayImager™)

The individual images and composite images can be subject to digital image analysis in VisioMorph™

Combine with AutoDisector™ for acquisition of paired multi-band images for cell counting in newCAST™

Black balance tool can be applied to improve the contrast between the signal and background in each image

Use and save image quick settings to setup lenses, filters, illumination and exposure time during automated image capture

WSManager™ (Whole slide manager add-on)

Enable sampling and analysis of Virtual Slides

Ability to work with virtual slides/whole slide images from Zeiss Mirax scanner, Hamamatsu NanoZoomer, Aperio Scanscope

Navigate in the virtual slide and change magnifications as if on a live microscope in Acquisition and NewCast™ Modules.

Automatically generate overview images at low magnification for detection of tissue regions of interest (ROI's) for subsequent sampling of image series

Perform sampling of series of images from individual tissue sections using the MicroImager™, paired tissue sections using the AutoDisector™, or from tissue micro arrays using the ArrayImager™.