

## I&M SHOWCASE – FV10i

### New FluoView FV10i Confocal Laser Scanning Microscope

#### Complex microscopy made simple

Olympus has recently developed the new FluoView FV10i confocal laser scanning microscope system, making advanced microscopy techniques readily available to a broad range of users. It is designed to remove all of the complex steps involved in setting-up and using confocal microscopes. Users can therefore concentrate on the images and data, without any prior microscopy expertise. As a result, even the most inexperienced users can generate consistently high quality images with ease.

- **User friendly:** The FluoView FV10i presents the user with simplified workflows, enabling the simple capture of high quality images and image series by simply: loading a sample; defining an observation mode and regions of interest (ROI); and capturing the image. It's as simple as set, select, capture.
- **Self contained:** As the entire system is contained within a 'box', darkroom facilities are provided without the need for a separate room. Furthermore, this enables the FV10i to be located on the bench-top at the point of discovery, or easily transported to wherever it is needed.
- **Advanced spectral detection concept:** The FV10i is fitted with a newly developed spectral detection concept, featuring two fluorescent channels supplied by a novel grating beam splitter and slit arrangement. Each channel is fitted with a variable

barrier filter, which is automatically set to match the wavelength range of the dye being used. The system can acquire two fluorescence channels and a phase contrast channel, or up to four fluorescence channels and a phase contrast channel using a frame sequence mode. As such, multiple fluorescence dyes can be easily imaged.

- **Fully automated:** All components of the FV10i are motorised and controlled via software, ensuring that functions such as focusing, exposure, fluorescence wavelength selection and cover slip thickness are automatically corrected for. This enables advanced imaging processes, including time-lapse, Z-stack and multi-position image capture.
- **User flexibility:** Users can choose between the water- and oil-immersion models, both of which provide an overall magnification range of 10x – 600x. The water model is fitted with an automated water supply and correction collar for accurate use of the 60x objective. With an in-build CO<sub>2</sub> incubator and a special culture pod, long term live cell imaging is easily accommodated.

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