

Discover FV10i



I Discovered a new way to look at high-end imaging.

I needed a system that would give me the same high-end imaging as a confocal, but would fit on my benchtop. With the FV10i, I got all that and more—superior image quality, a compact solution, and an easy-to-use instrument—with no darkroom required. Now I can focus on the science, instead of the system.

Isn't it time you saw high-end imaging in a new light?



Scan this code or visit
www.olympusamericaFV10i.com
to learn more and to
schedule a demo.

FV10i[®] SYSTEM FEATURES AND BENEFITS

No experience is required with the FV10i, even for sophisticated confocal imaging. The navigation function leads a first-time user to operate the FV10i with ease.

FV10i-LIV

Simplified Built-in Incubator

The system has a simplified built-in incubator, allowing easy time-lapse imaging of live cells without losing valuable time in setting up equipment. The environment in the culture chamber is maintained at temperature - 37 degrees Celsius, humidity of - 90%, and CO₂ concentration of - 5%.

Dedicated Culture Pod

The system is provided with a dedicated culture pod for dia. 35mm cover glass bottom dishes. Recirculation of the culture media and addition of reagents during time-lapse is possible. In addition, the culture pod system can be autoclaved for sterilization.

Stable Time-Lapse Imaging

Not only the incubator but also the surrounding air space is maintained at 37 degrees Celsius. Long-term time-lapse imaging is possible while maintaining cell activity.

Water is Automatically Supplied to the Water-Immersion Objective

The newly developed automatic water dispensing system enables the FV10i to supply water to the top of the water-immersion objective. You can continue long-term time-lapse imaging without worrying about insufficient immersion media. Water is supplied automatically when the objective is moved into the observation position.

Detection of Cover Glass Thickness and Automatic Adjustment of the Correction Collar

The system is equipped with the capability to detect the thickness of the cover glass, allowing it to adjust the correction collar automatically, when using the water-immersion objective. This assures imaging is performed each time with optimal conditions.

The System Supports Multi-Area Time-Lapse

The system is equipped with a motorized stage, and repeat imaging is possible through multi-area time-lapse. Ten point locations can be assigned within a single dish (well). For example, in the case of a dia. 35mm glass bottom dish, three dishes can be mounted, allowing a maximum of up to 30 locations to be captured.

FV10i-LIV/FV10i-DOC

Equipped with Four Wavelength Diode Lasers for Imaging up to Five Channels

The system is equipped with four (405/473/559/635nm) lasers. Multi-stained specimens can be imaged with up to four fluorescence dyes. Transmitted light phase images can also be acquired. Maintenance-free and power-saving diode lasers with longer operating lives are employed in all the laser units, and operate with low noise levels.

Detector Utilizes a Newly Developed Spectrum Method

The detecting mechanism has two fluorescence channels, and one phase contrast channel. The fluorescent channels use a newly developed spectrum method comprising grating, beam splitter, and slit. In addition, they are equipped with the variable barrier filter function where the most suitable wavelength width is set automatically in accordance with the characteristics of the fluorescence dye.

Objectives of 10x and 60x are Mounted on the System

The system is equipped with 10x and 60x phase objectives specifically designed for the FV10i to maintain high resolution. By changing lens and scanning zoom, magnification can be changed continually from 10x to 600x. The most suitable imaging area can be set depending on size of the specimen.

Software dedicated for exclusive use for FluoView is provided to easily perform various editing / analysis operations.



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