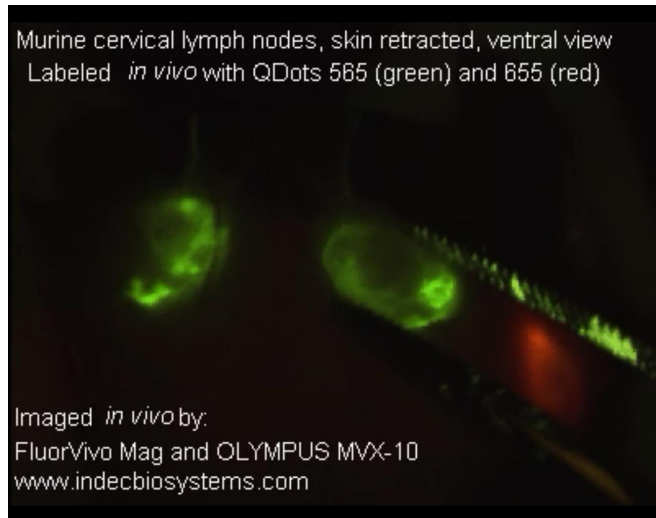


FluorVivo™ Mag *in vivo* Microscope

from  INDEC BioSystems



FluorVivo Mag *in vivo* Microscope – ideal for study of *in vivo* cell biology



Summary

The **FluorVivo Mag *in vivo* Microscope** is a new member of INDEC BioSystems' family of fluorescence imaging solutions. The Mag seamlessly integrates a zoom macroscope with INDEC's proprietary digital color cameras and powerful FluorVivo software, into a complete, **real-time *in vivo*** turn-key microscope system. INDEC's solution brings simple, real-time digital imaging to a critical range of magnifications, ranging from the subcellular to near whole-animal. This makes the Mag an ideal instrument for study of *in vivo* cell biology, examining the interplay between cells and their systemic contexts.

The Mag is ideal for fluorescence-guided surgery applications, as it combines intuitive natural-color imaging and high fluorescence sensitivity with real-time performance for good hand-to-eye coordination. It also brings powerful imaging and analytical capabilities to a broad range of applications, such as single cell research, cancer and regenerative biology.

Synergy with FluorVivo Whole-Body Imaging Systems

FluorVivo Mag can be integrated with a chamber from the FluorVivo family to provide the most cost-effective whole-body-to-single-cell imaging system available. This also provides an opportunity for labs to assemble a completely integrated *in vivo* imaging system in stages, buying additional FluorVivo systems as the need arises. Customers can be confident their investment will be protected, as they can extend their FluorVivo system as their experimental demands change.

Essential and Unique Features of the Mag *in vivo* Microscope

- Real time, multicolor imaging – images are in full, intuitively understandable color
- Foot pedal control of imaging allows hands-free operation
- A complete, turn-key system
- Optional anesthesia and temperature control equipment
- Acquisition-time, real-time overlay of a fluorescence image on a color image of the preparation (in development)
- Simple user interface for easy control of program functions



Leica Macrofluor Z16 APO A

Applications

Applications in basic research include studies of gene expression, stem cell and developmental biology. Applications specific to cancer research include apoptosis, tumor growth, and angiogenesis, extravasation, and metastasis. Pre-clinical applications include drug screenings, drug targeting, and validation of animal models.

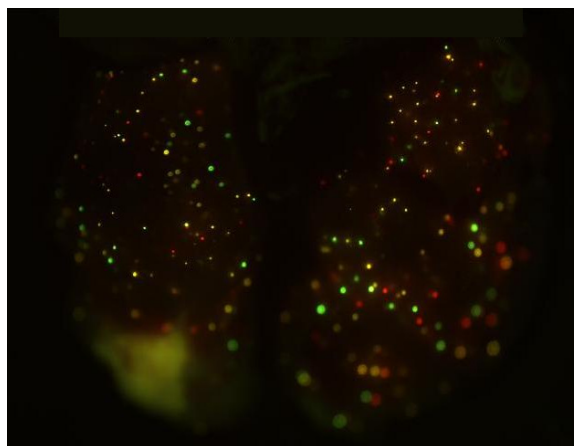
Powerful Yet Easy-to-Use Software

- Intuitive control of acquisition parameters
- Quantitative image analysis – spatial and intensity measurements, manual and automated
- Real-time spectral separation – hides autofluorescence as you work on the preparation
- Time-lapse image acquisition and analysis
- Film strips allow easy image review and transfer of images between files
- Export images and measurements to standard formats

The Advantages of Fluorescence Imaging

In vivo fluorescence imaging techniques offer significant benefits when compared with bioluminescence methods:

- Speed – Real-time imaging so quick that you can record cell and body events
- Flexibility – genetic control of expression of multiple, distinct fluorescent proteins permit almost unlimited experimental possibilities
- Future prospects – will take optimal advantage of new markers (e.g. new fluorescent proteins, quantum dots and nanocrystals)



Mouse lungs, imaged *ex vivo*, following intravenous injection of fluorescent microspheres.

For more information about FluorVivo Mag, please contact INDEC BioSystems:

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