



## **Upgrade from PALM MicroBeam III to PALM MicroBeam IV**

Make your Laser Capture Microdissection work more efficient and increase Sample Throughput



# Upgrade from PALM MicroBeam III to PALM MicroBeam IV

Make your Laser Capture Microdissection work more efficient and increase Sample Throughput

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## Upgrade your LCM System to a PALM MicroBeam IV.

### Introduction

The upgrade for PALM MicroBeam systems of generation III to ZEISS's latest laser microdissection system MicroBeam IV enables highly automated operation and makes your work more efficient. The upgrade package includes a fully motorized microscope, laser capture microdissection (LCM) specific components, new computer and the latest LCM software. The upgrade provides full support of all hardware and offers an exit scenario to the Windows XP discontinuation of support and the upcoming end of support of MicroBeam III systems (Oct. 2014).

### Availability

The upgrade to a MicroBeam IV system is available for:

- PALM MicroBeam III (with N<sub>2</sub> laser) based on AxioVert 200
- PALM MicroBeam III (with FTSS laser) based on AxioVert 200

### Benefits

- High degree of automation and increased throughput since all parts including CaptureDevice are motorized
- Visualize your sample with greater detail and with higher sensitivity by using better cameras.
- Intuitive and most powerful LCM software
- Stable, long-life solid state laser which is faster and more precise than a N<sub>2</sub> laser.
- Automated Calibration Wizards guarantee optimal system

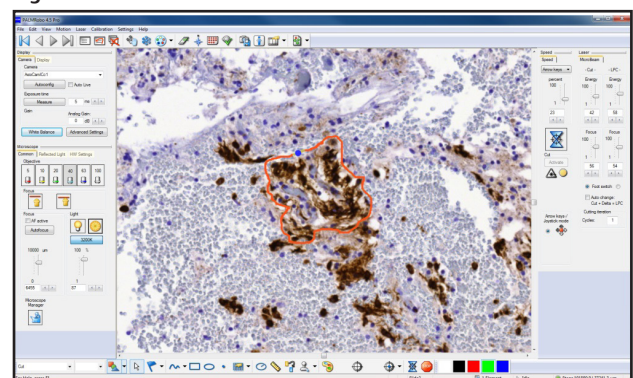
performance and easy system support

- LCM system extendable to an imaging system (with AxioVision or ZEN and full functionality and flexibility of Axio Observer)
- Windows 7 on a new and powerful computer offers an exit scenario to the Windows XP discontinuation.
- All parts of the essentially new system will be fully supported for at least the next eight years.
- Upgrade prepares for future upgrades with for example optical tweezers, ApoTome, or a LSM.

### Operation

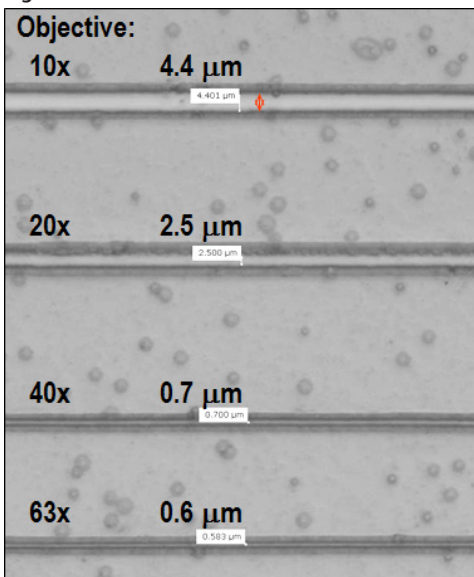
MicroBeam IV is a fully motorized laser microdissection system based on the high end microscope AxioObserver.Z1. The complete system is software controlled. This allows for instance automated sample identification and sample capture, even in different collection vessels.

Figure 1



Software for MicroBeam IV

Figure 2



Improved cutting precision with FTSS laser

Part	Ordering no.
LCM Upgrade-Bundle MB III to MB IV	415109-9140-000
LCM Upgrade-Bundle MB III N <sub>2</sub> to MB IV	415109-9150-000
Microscope Axio Observer.Z1 for LCM-Upgrades MB III to MB IV	494800-0011-000
Microscopy Mid-Range Workstation Xeon Quad-Core (with monitor and software for LCM upgrades MB III to MB IV)	490002-0101-000
Or alternatively: Microscopy Compact Workstation Core i5 (with monitor and software for LCM upgrades MB III to MB IV)	490002-0102-000

Unless already existing, a capture device (CapMover II or RoboMover) needs to be added.

### Upgrade path

The LCM Upgrade to MicroBeam IV is only available for MicroBeam III systems based on AxioVert 200.

Carry-over parts:

Objectives, fluorescence equipment and some LCM specific components

The retrofit must be done by an authorised ZEISS service engineer. For further information, contact: [microscopy@zeiss.com](mailto:microscopy@zeiss.com)



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