



Microsurgical Robot

Microsurgical platform is a setup that is originally designed and developed for ophthalmic application but it can be also used for other medical and biological procedures. It could be also used as a training platform for micro-robotic applications. Multidisciplinary team of researchers including engineers; biologists and clinicians can perform their micromanipulation tasks using the platform. Integration of imaging devices and microscopes to the setup enables performing interdisciplinary projects such as image guided micromanipulation.

Key Features

- Microscopy
- Haptic Interface
- Multimodal Communication
- Light weight: 315g
- High Precision Motion: 10um
- Open-access Software Platform

Possible Applications

- Micromotion Trajectory Planning
- Image Guided Micromanipulation
- Micromanipulation



Access information

Corresponding infrastructure	Technical University Munich Robotics and Embedded Systems
Location	Boltzmannstraße 3, 85748 Garching bei München, Germany
Unit of access	Working day

Technical specifications

DoF	5
Interface	RS232/USB
Power supply	12V@5A peak
Weight	315 g
Precision	10 um
Feedbacks	Sensors / Vision
Input device	Haptics