



1 Close-up of the real-time Multi-spectral Imaging (rMSI) prototype system.

2 An example of imaging two different fluorochromes in tissue.

## REAL-TIME MULTI-SPECTRAL IMAGING (rMSI)

### Vision

Optical imaging opens new paths for the identification and classification of tissue in diagnostics, intervention, and therapeutics. With the use of molecular imaging technology, various moieties existing inside or outside the cell can be targeted with fluorescent contrast agents and thus enable the visualization of unseen physiological or pathological processes. Fluorescence can highlight for example nerves or tumors giving the doctors an unprecedented tool to improve the outcome of the medical practice for the benefit of the patient.

These emerging technologies necessitate for optical methods that enable the accurate sensing and visualization, not only in the usual microscopic scale, but also in the clinics to image in the organ, system or whole body level.

### Solution

In PAMB we develop new imaging and optical measurement technologies for the biomedical applications market to become the next generation of products. We have developed a novel prototype system real-time multispectral imaging (rMSI) system aiming clinical applications.

### Key characteristics

- Multiple fluorescent targets
- Simultaneous fluorescence and color imaging
- No moving parts
- Natural visualization

### Application Fields

- Surgical Microscopy
- Endoscopy
- Ophthalmology

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