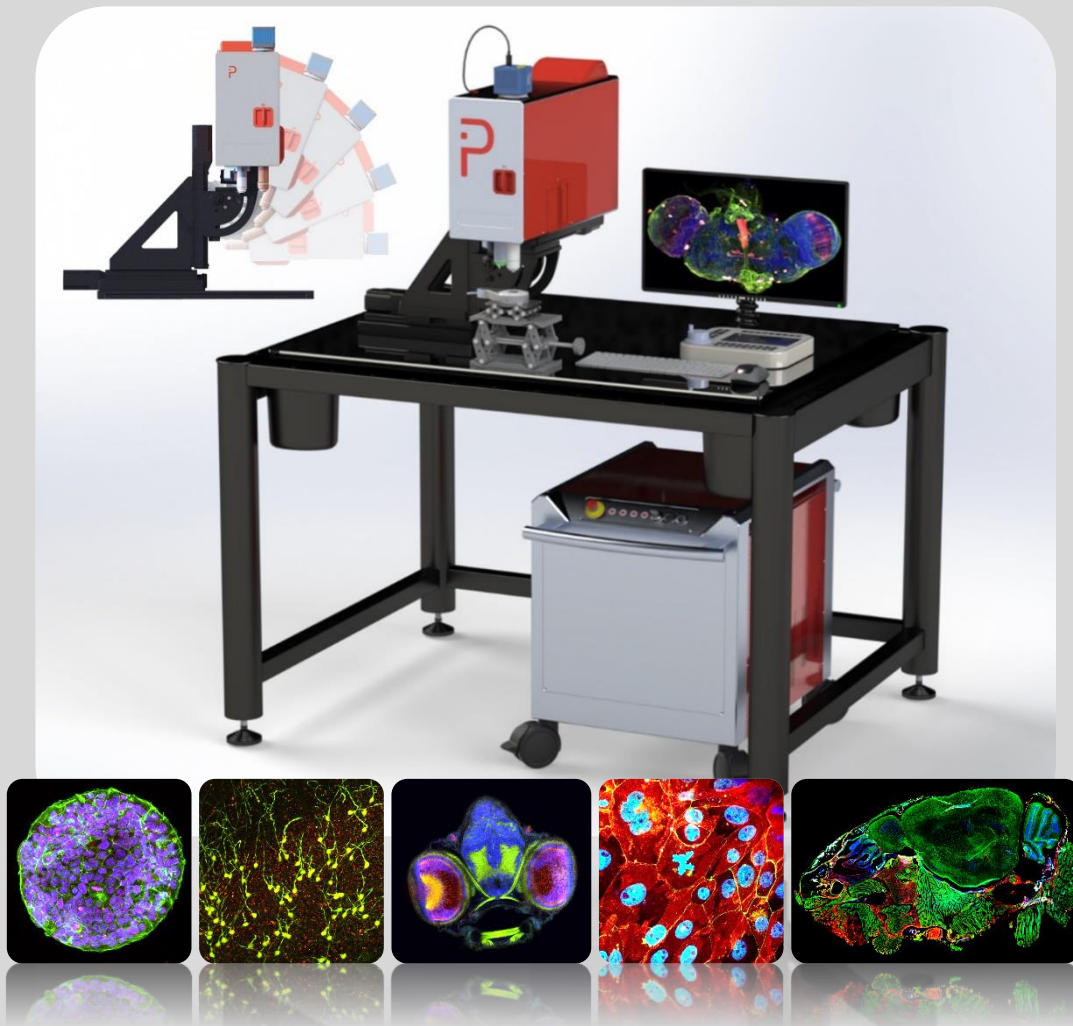




“MPX is the world’s first turnkey, compact, and fully integrated, next-generation multiphoton microscope!”



TURN-KEY | EASY-TO-USE | MULTIMODAL | COMPACT

Prospective’s MPX combines different imaging techniques in one easy-to-use and portable device: non-linear MP (two-photon, SHG & THG) and widefield epi-fluorescence and fluorescence lifetime (FLIM) imaging to maximize informational content, ranging from single cells up to living in upright and inverted configuration.

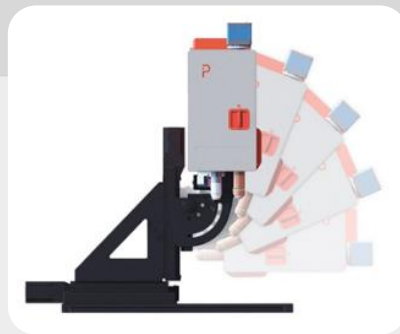


Unique Features MPX Microscope

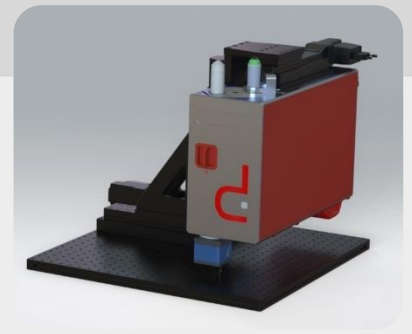
- Most **compact & portable plug&play turn-key** widefield and two-photon microscope in the market.
- Combines high-performance wide field **epi-fluorescence** and **multiphoton** imaging in a single **fully flexible 360-frontend** (scanhead).
- Precise **motorized scanhead** motion for imaging at **oblique angles**.
- Effortless transition from **upright** to **inverted** imaging.
- Large working distance** under the objective allows large complex setups e.g., for electrophysiology or life support setups for plants or animals or fluidic experiments.
- Air-cooled**, no special facility requirements or laboratory construction needed, and minimal installation space.
- Fiber delivered, **built-in dual wavelength tuneable femtosecond laser**, therefore lowers safety risk from free-space beam and ensures permanent alignment.
- No costly service contract** necessary; fiber laser components are proven the most reliable with a low failure rate.
- Microscope and femtosecond laser designed and integrated together from **one manufacturer**, which reduces your risk, turnaround time, cost and component-confusion.
- Modular design allows expandability and upgradable options, e.g. **3P, FLIM, CARS, SRS**, etc., so the microscope can be updated and grow with your research.



MPX illustration on lab table



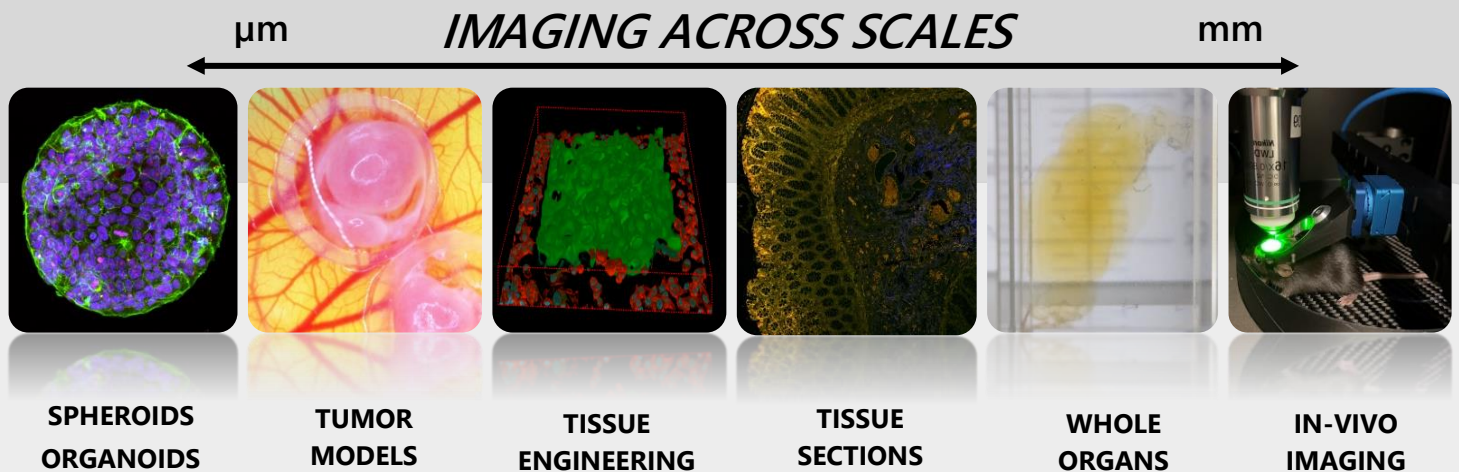
360-Frontend Scanhead: Rotation up to 90°. upright or inverted





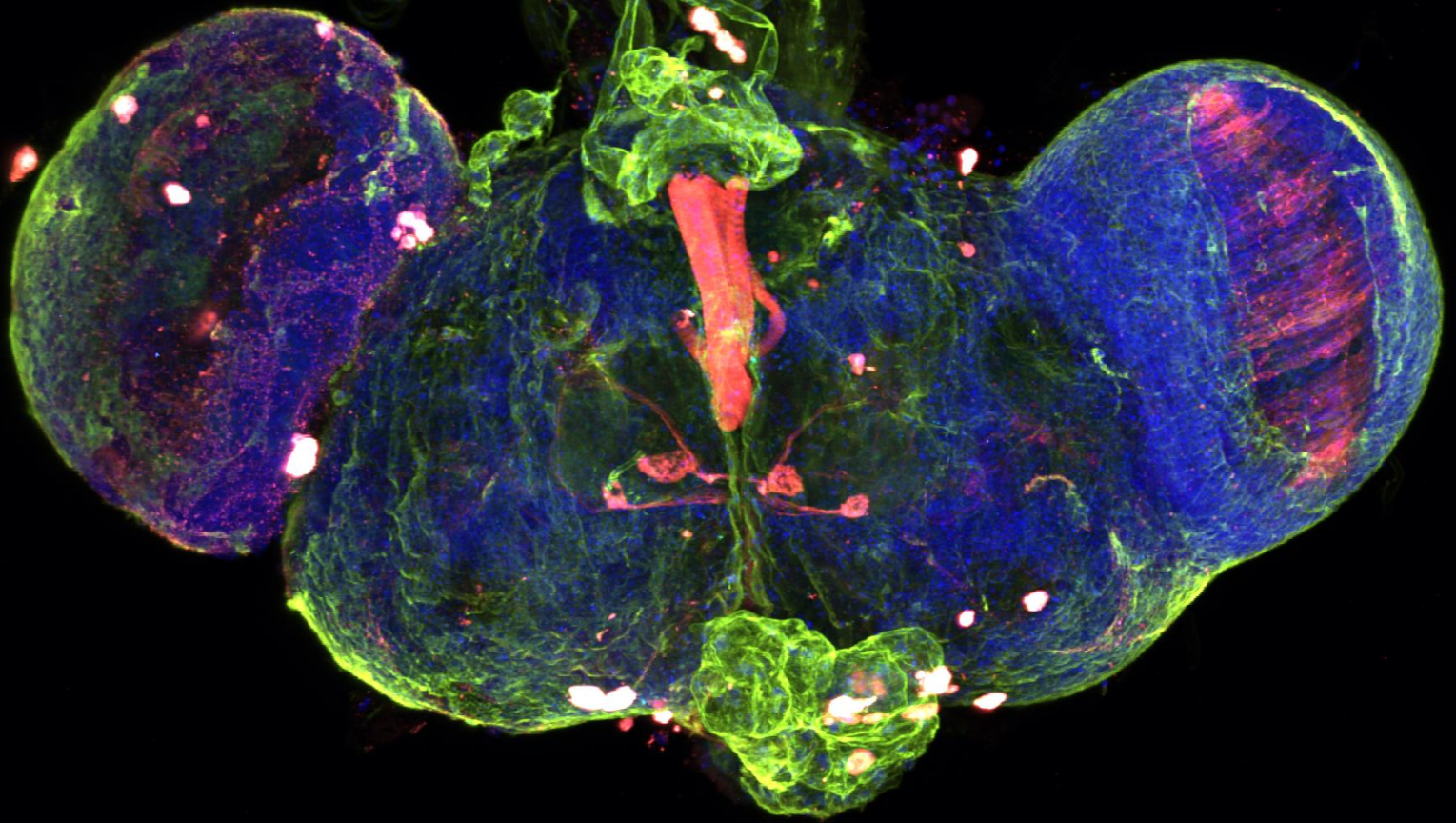
Proven Use-Cases

- 📌 **Live animal in-vivo/intravital imaging:** Mouse & fish model
- 📌 **Whole organ imaging:** Drosophila brain, mouse brain
- 📌 **3D cell cultures:** Organoids, Spheroids
- 📌 **Tissue engineering & bioprinting**
- 📌 **2D whole slide imaging:** for tissue imaging (e.g. skin, colon, liver, kidney) and drug distribution and delivery (e.g. in mouse)
- 📌 **3D whole slide imaging:** tumour resections
- 📌 **2D and 3D label-free imaging:** collagen signatures in tumour-tissue, muscle imaging, collagen-scaffold imaging
- 📌 **Plants biology:** root growth, nuclear organization in petals
- 📌 and many more.



Prospective Instruments

Advanced multiphoton microscopes & femtosecond lasers for biomedical research.



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