

MANTIS PHOTONICS

THE EYE IS THE WINDOW TO YOUR HEALTH

OUR TOOL

We are developing a camera to take hyperspectral images of the retina. With one snapshot image, we will screen for eye diseases, cardiovascular and neurodegenerative diseases.



Non invasive



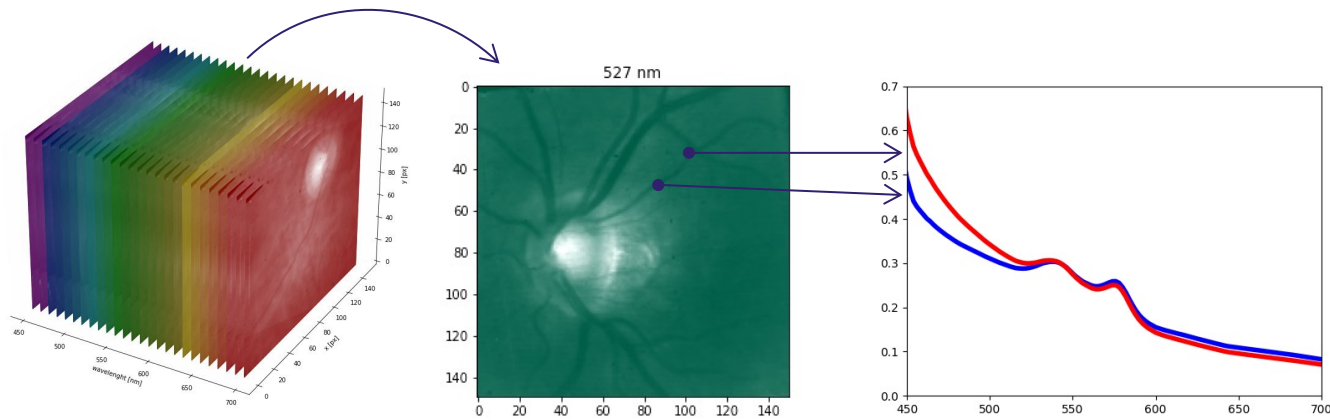
Fast imaging



Cost efficient

OFFER

- Camera Research Use Only
 - Mounted on top of Topcon TRC 50
 - 2 years warranty
- 15 000 €



PRELIMINARY DATA

- AMD
- Glaucoma
- Naevi
- Alzheimer

OUR TECHNOLOGY

- 40 band
- 10mm FWM
- 200 x 300 px
- 450-700mm

The retina is a unique spot in the body where you can observe three essential systems simultaneously :

VISION



CENTRAL NERVOUS SYSTEM



BLOOD



HYPERSPECTRAL IMAGING

At the core of our solution lies our patented hyperspectral imaging technology. Unlike traditional imaging methods, our technology uncovers subtle features. Our 40-color wavelength images enable to develop advanced AI-based detection and monitoring of multiple pathologies, ensuring accurate and comprehensive analysis.

S. Lemmens et al. "Hyperspectral Imaging and the Retina: Worth the Wave?". Trans. Vis. Sci. Tech. 2020.

D Guénot, O Lundh "Optical spectrometer and method for spectrally resolved two-dimensional imaging of an object" US Patent App. 17/623,291.

JOIN THE FUTURE OF HEALTHCARE

Are you ophthalmologists or scientist ? Let's collaborate to make a significant impact on the lives of millions.

If you're interested in learning more about our hyperspectral retina imaging technology, contact us!



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