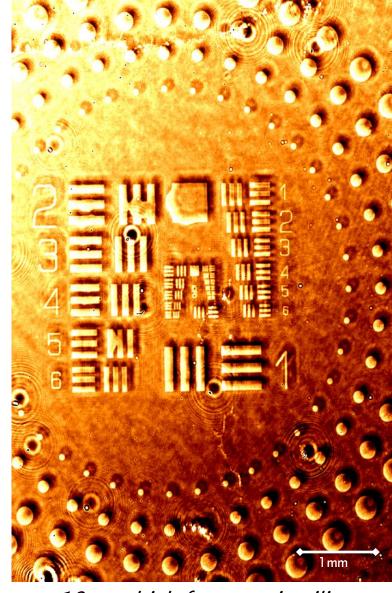


Lens-free interferometric microscope (LIM)

Highly sensitive, compact and in-expensive imaging system for large areas



10nm thick features in silica



Dr. Luc Dümpelmann



Who are we?

core team



Dr. Luc Dümpelmann



Dr. Roland Terborg



Prof. Valerio Pruneri

ICFO at a glance



- 9 400+ People
- 9 25 Research Teams
- **14000** m²
- 60 Research labs
- Research, Grad Education, KTT
 - 17000+ citations/year
 - 200+ PhD graduates
 - 50+ Industrial projects
 - 37 ERC Grants
 - 8 spin-off companies

ICFO Launchpad

ICFO's bridge to all types of industries, hospitals and corporations

A space and support structure which allows innovative ideas to develop into new technology spin-offs

Spin-offs









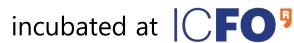
KTT









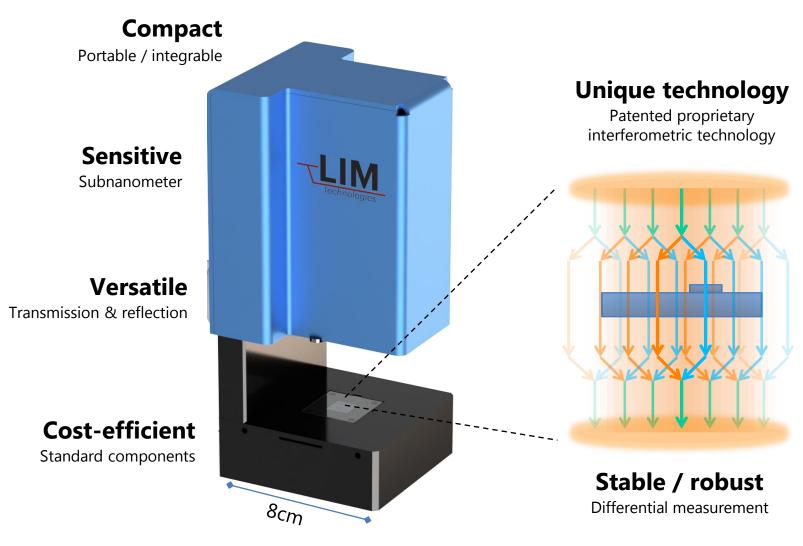


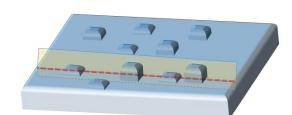




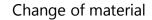
What do we do?

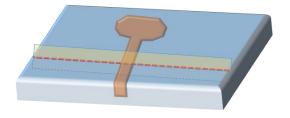
Types of measurement



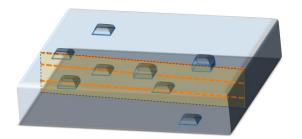


Structures on surface





Change geometry & material



Large area / volume

Field of view >35mm²



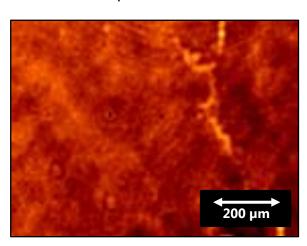


What do we offer?

Detection of nano- and micrometric features via quantitative phase imaging for:

Quality control

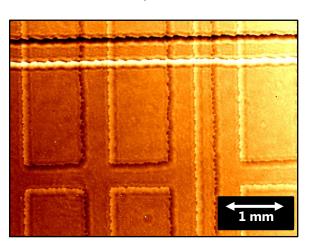
Particulate and defect detection in transparent material



Rapid and large area Completely transparent

Material science

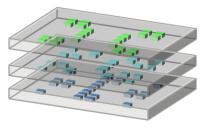
Analysis of refractive index and defects in transparent electronics

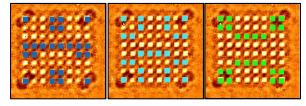


Characterization of refractive index Large depth of field

Feature detection

Depth information of structured samples





Localization in 3D
Characterization of refractive index





What are we looking for?

Partners / collaborators



Users / customers

Standalone imager
In-line inspection tool
Add-on for existing platforms

We provide:

Highly sensitive, compact and in-expensive imaging systems for large areas

Potential application areas



Optics

- High quality optical material
- Ophthalmic
- Advanced optics



Electronics

- Transparent electronics
- Large area displays
- Semiconductors



Infrastructures

- Communications
- Photovoltaics
- Smart windows

