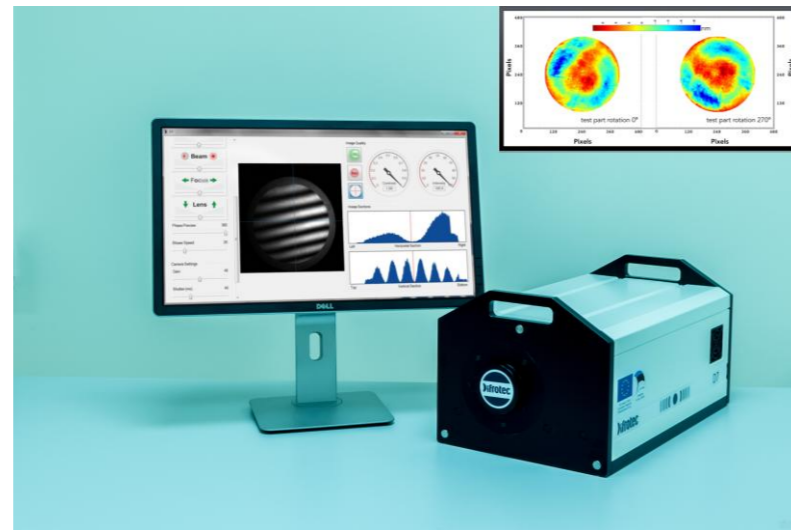


Ultra-high accuracy interferometry & custom optical solutions

- Existing tools, which are traditionally used for measuring spherical optics, reached their limitation. **The required measurement accuracy** for freeform optics is **in nanometer scale**” – Gregory Forbes, Science Consulting, Australia.
- “Companies do what they can, combing and averaging results of several technologies, but **there’s still a gap that needs to be addressed to push the industry to higher precision**” – Dr. Jessica De Groote Nelson, Director of Technology, Optimax Systems, USA.

D7 tests (video link) optics and optical systems with the highest accuracy, revealing features and defects in surface form originating from manufacturing technology, e.g. scratches & cuts. It is important for building precision satellite cameras, high resolution telescopes, powerful microchips, and consequently faster computers.



Higher accuracy over state-of-the-art interferometers 0.6nm vs 15-20 nm	Saving time & cost because intermediate instruments or additional methods to improve accuracy are not required
The D7 inspects more of the surface features than standard interferometers	Saving time & cost due to better revealing manufacturing mistakes before installation and launch of optical systems

Difrotec OÜ Teaduspargi 13, 51014 Tartu, Estonia
maria@difrotec.com +372 59016617 www.difrotec.com

Examples of optics D7 can measure

- Automotive** industry: optics for safety, navigation and self-driving, LED-based and hid lights, etc.
- Space** and aircraft technology: testing image quality of satellites cameras, testing quality of telescopes systems, lidars or separate lenses, large sized and complex mirrors
- Medical** optical devices for early diagnostics and treatment of deseases, surgery assistance devices, ophtalmology, vision improvement, etc.
- Semiconductor**: optics used in chip-making machines (high quality projection optics)
- Machine vision**: optical systems for mass product inspection and automated fabrication control
- New high quality **materials** fabrication: optical instruments used in manufacturing and material composition control
- Cinema, video and photo **cameras**
- X-ray** vision systems for medical, defence, criminology and many other applications

Tractions & Team key persons

- Partners & customers in China, South-Korea, USA & Europe
- Revenue close to \$1M from 3 sold devices, measurement services for Tartu Observatory and Edmund Optics
- 4 patent applications in USA and EU and 1 Estonian patent (granted in 2012)
- 5 internationally published papers



Mariia Voznesenskaia
 CEO,
 MSc (economics),
 co-founder,
 business developer



Nikolay Voznesenskiy
 CTO, Prof., Dr. Sci.,
 co-founder,
 technology leader,
 over 30 years
 experience in optical
 engineering



Diwaker Jha
 Chief engineer,
 PhD in physics,
 product
 development,
 previous
 synchrotron
 facilities



John Longhurst
 Major investor,
 Financial adviser.
 Previous Capital
 Group Companies
 Partner