

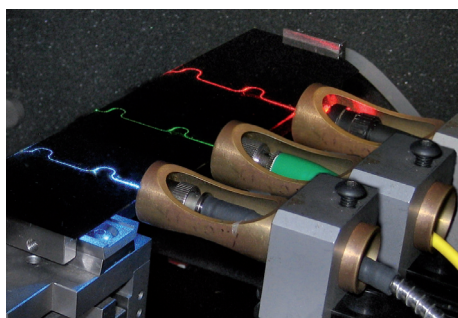


COMPANY PROFILE

About LioniX

LioniX is a leading provider in development and production of innovative and leveraging products based on *micro/nano technology* and *MEMS* for next generation products of its (OEM) customers. LioniX offers design for manufacturing and horizontal integration by partnering with foundries and suppliers of complementary technologies. Therefore, LioniX is able to offer complete solutions, and to control the process of development into production as well as the manufacturing of the final product.

LioniX is a private company, based in Enschede, The Netherlands. It employs over 25, mostly highly educated employees, and its management has experience in the micro/nano technology for decades.

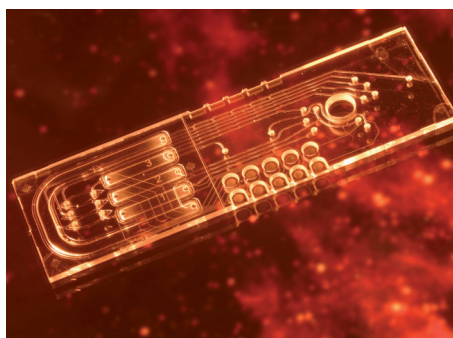


Optical waveguides based on TriPlex™ technology for red, green and blue

For whom we work

LioniX is being oriented towards the two emerging product-market combinations optical components in *Data/Telecom* and *instruments in Life Sciences, Industrial Process Control* and *Space*.

The combination of the core technology competences integrated optics, micro/nanofluidics and surface (nano)chemistry gives LioniX an unrivalled competence in the area of *Lab-on-a-Chip* applications, whereas the proprietary platform *TriPlex™* has a unique added value in *Planar Lightwave Circuits*.



Microfluidic chip for detection of life on Mars

LioniX distinguishes itself on an international scale in projects for multinational, innovative SME and VC companies, as well as for universities/institutes and leading end-users.

Customer relations

LioniX works closely with its customers in customer-specified projects, aims for an open and sustained relationship, and strives for an early involvement and a leading role in the trajectory from concept to production and supply during the life cycle of the microproduct. The co-operations are based upon subcontracting, licensing of IPR and joint ventures.

Network

LioniX collaborates with the world-renowned *MESA+ Institute for Nanotechnology* of the University of Twente and has built up a firm IPR position in its core competences.

LioniX actively maintains and extends its network and has agreements with a variety of providers for volume production, assembly, electronics, software, system integration and industrial design. Next to this, it is partnering with actors in the area of biotechnology, food, medical, fine chemistry/pharma and water technology.

Key competences and activities

● *Integrated Optics*

Devices based on the proprietary *TriPlex™ (Si₃N₄/SiO₂)* technology, *UV-VIS-(N)IR* transparent waveguides for data/telecom applications, optical detectors, sensors and signal processing.

● *Microfluidics*

Components and system engineering for (bio)sensor, *Lab-on-a-Chip* and *Micro Reactor Technology* applications, including integrated optics and:

● *Surface Functionalization*

The rational design of functional surfaces, i.e. for immobilization of receptors and catalysts, supported by innovative *mesoscale modelling* techniques.

● *Micro/Nano Technology / MEMS*

Thin films, structures and components based on numerous process steps developed in the *MESA+ NanoLab*, including LioniX' specialties such as *DRIE of glasses*, *Fused Silica wafer bonding* and *Chemical-Mechanical Polishing (CMP)*