

modulight

Modulight for EPIC Meeting on Photonics for Cancer Diagnostics and Treatment at NKI



Zoe Ylöniemi
Dec 12th 2019

Modulight, Inc.

- ❑ The only vertically integrated PDT laser manufacturer in the world
- ❑ Profitable privately held company with 19 years track record
- ❑ Exclusive supplier to 10+ pharma & world leading cancer centers in USA & Europe
- ❑ Long track record of making all kinds of semiconductor lasers & pumps (400–2000 nm)



Modulight: 19+ years of making lasers

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Applications



Optical communication,
Test & Measurement



Laser range finding,
Industrial lasers



Weather and climate sensors,
Remote sensing, Illumination



Fluorescence, Raman spectroscopy,



Aerospace sensors, target designation



Laser therapy, Oncology, Photoimmunotherapy, Flow cytometry



Optogenetics, Drug discovery, Sequencing

**Oncology
Treatment monitoring
Autonomous drive
Remote diagnosis
Treatment flow 2.0
Optogenetics
Cardiac safety**

2000

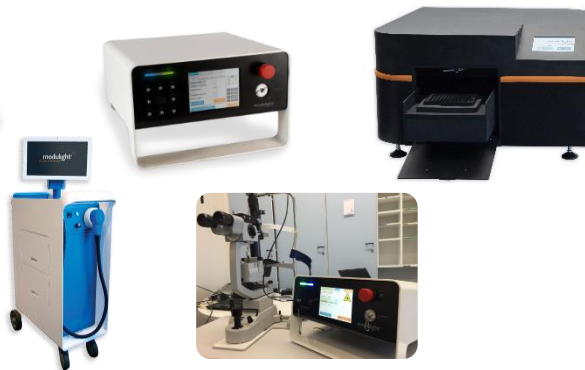
Technology



2010



2020

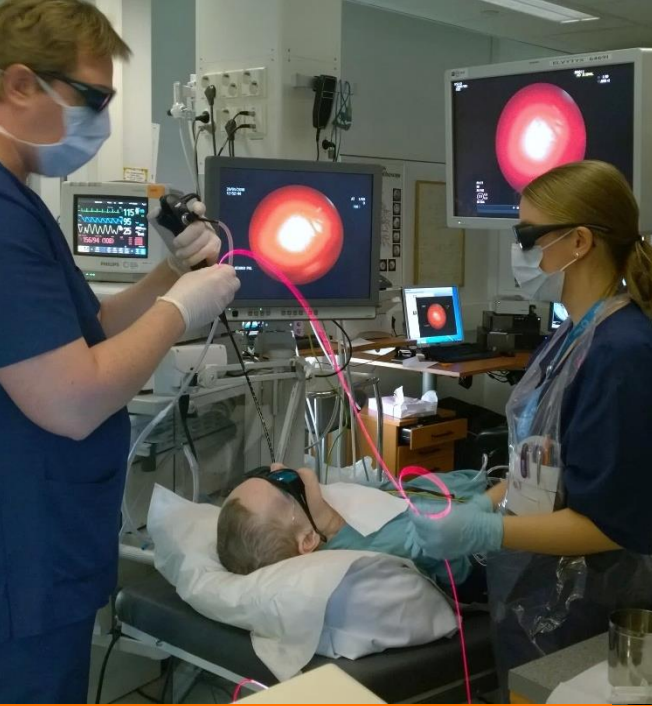


**Eye safe range finding
Efficacy guided therapy
3rd generation HP LD
Optogenetics illuminators
Biomedical photoanalyzers**

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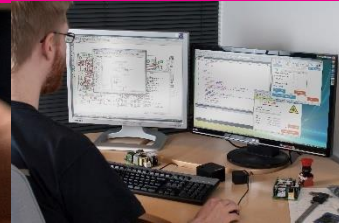
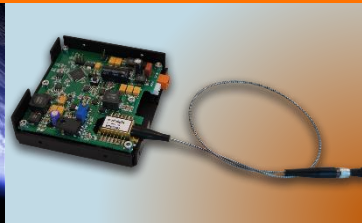
Life sciences

- ❑ Medical laser systems
- ❑ Oncology
- ❑ Ophthalmology
- ❑ Optogenetics
- ❑ Pharmaceutical safety & testing



Custom & industrial

Subsystems for challenging optics & electronics • Processing




Services

Regulatory & engineering • Lifecycle support



Laser treatments can be combined with resection or surgical removal of tumors. Glioblastoma is one example of such a treatment.





Thank you!
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