



Trends in biomedical imaging

- ❑ Recent boost in genomics and sequencing, flow cytometry, droplet sorting, cell imaging and microscopy
- ❑ Clinical translation FGS: 5-ALA for more comprehensive GBM resection and TURBT in bladder cancer
- ❑ New multi-function drug delivery: local targeting, imaging and treatment

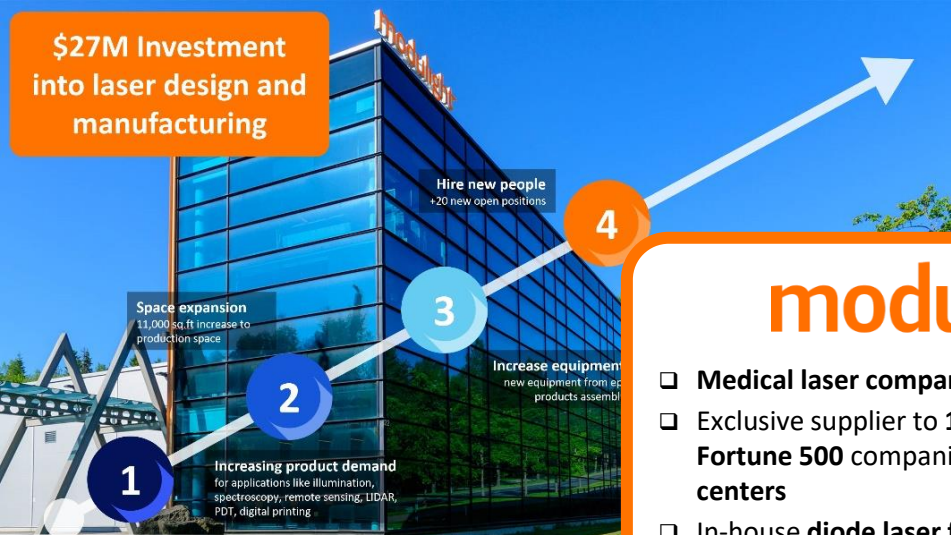
→ **Need for flexible theranostic medical devices**

Application requirements for theranostic laser systems

- ❑ Wide selection of wavelengths needed to support existing and future dyes
- ❑ Range of imaging agents keeps increasing
→ Need for configurable, multi-use platforms
- ❑ Variable light delivery options needed depending on application site
- ❑ Complete solution offering from in-vitro to clinical use to enable smooth clinical translation
- ❑ Usability designed for medical professionals
- ❑ Connectivity to enable remote diagnostics, data collection, etc.



\$27M Investment
into laser design and
manufacturing



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- ❑ **Medical laser company** in Tampere, Finland
- ❑ Exclusive supplier to **10+ pharma**, other **Fortune 500** companies & leading **cancer centers**
- ❑ In-house **diode laser fab** & true **vertical integration**
- ❑ Supporting customers from **early discovery** & innovation to **mass production** & end-of-life
- ❑ Modulight medical laser product portfolio ranges from compact light engines for **endoscopic imaging** to cloud connected medical laser systems for treating **glioblastoma**





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ML8500

Automated biomedical illuminator



ML6500 ML6600

Compact light engine for system integrators



ML7710

Configurable clinical laser platform with active treatment monitoring

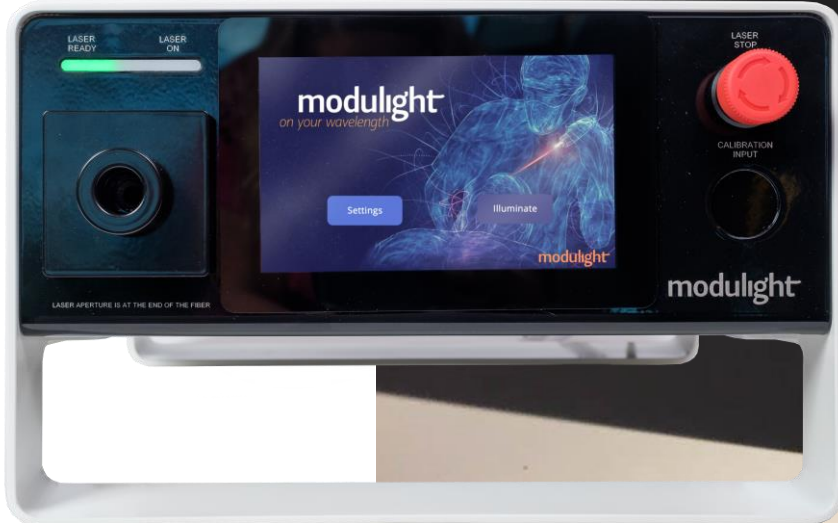


ML6710i

iPad controlled ophthalmic laser

Case example: ML7710 for in vivo fluorescence imaging

- ❑ Modulight ML7710 laser platform supports 8 wavelengths by default
- ❑ ML7710 configuration for fluorescence imaging contains RGB source and selectable excitation wavelength
- ❑ Focus in achieving better beam profile and minimized speckle
- ❑ Platform design enables flexible changing of laser wavelengths depending on application/fluorescent dye properties
- ❑ Internet connectivity enables remote software updates and diagnostics and management of devices in the field
- ❑ Easy extension to a theranostic device platform






What can Modulight do for you?

- ❑ Modulight designs and manufactures laser systems for medical professionals from *in vitro* R&D to commercial use
- ❑ Modulight laser platforms are designed to support multiple excitation wavelengths, different light delivery optics and automated data collection and analysis in ML Cloud
- ❑ Our customers range from pharmaceutical companies to medical device manufacturers and individual MDs.

What can you do for Modulight?

- ❑ We are always looking for OEM manufacturer partners to help us take our laser systems to the next level
 - ❑ Optical fibers, miniaturized spectrometers, FBG technology etc.
- ❑ Help us to identify new application areas for our laser systems and introduce us to new diagnostic/therapeutic methodologies where our lasers could be utilized



Thank you!
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