

Femtosecond laser: LVC & Eye Surgery

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Segment Leader Medical
EPIC Online Technology Meeting
Laser Vision Correction (LASIK, PRK, LASEK, RLE),
Eye Surgery and Diagnostics

October 11th 2021



Worldwide Leader in Ultrafast Lasers

400+ employees working with the same passion and delivering the best products for 3 market fields.

Industry

- Display
- Semiconductor
- Consumer Electronics
- Micro processing

Science

- Life science
- High Intensity and Energy Physics
- Spectroscopy and Imaging
- Instrumentation

Medical

REGISTERED

- **Ophthalmology**
- Protontherapy
- X-Ray Imaging
- **Medical Device** Manufacturing

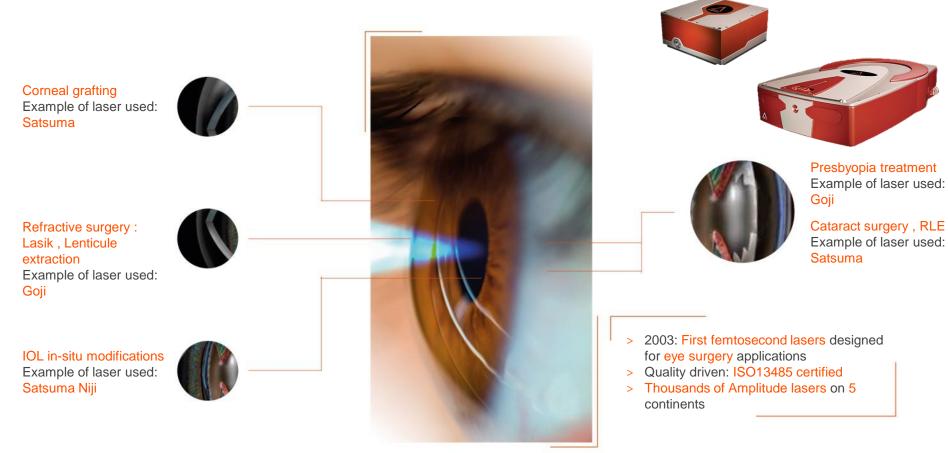




Amplitude

Laser Vision Correction with FS-Lasers

Approved for use by the U.S. Food and Drug Administration (FDA) for lamellar corneal surgery since January 2000, FS-lasers are now used for wide range of applications





Laser Vision Correction with FS-Lasers

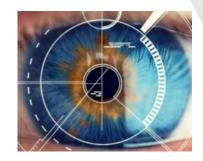
Need for continuous innovation from the market: What Amplitude can bring



- > Provide a Laser source for the most demanding needs of existing techniques :
 - Compacity
 - User friendly: easy to useRemote maintenance: 4.0
- > Develop new generations of Lasers to address the requirement of the coming New Techniques :
 - > Photoemulsification for Cataract surgery
 - > Refractive : LIRIC, Laser Induced Refractive Index Change
 - Glaucoma: femto-second Laser sclerostomy: Alternative for minimally invasive glaucoma surgical therapy
 - > Presbyopia: Using a fs-Laser to soften the Lens
 - > Retinal surgery: Laser beam to replace thin and hard-handling hand instruments



Eye Surgery EPIC Questions



What can you do for Amplitude ?

- Provide the best innovative components to continuously improve the performance of our Laser sources
- > Develop inter-disciplinary collaborations to adress potential new applications

What Amplitude can do for you?

- > Provide the world most advanced fs-lasers for eye surgery applications
- > Be an innovative partner to build the future of Ophthalmology



Thank you!

You can find us:

www.amplitude-laser.com







