



Opticsvalley

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Abstract

Opticsvalley is a non profit organization whose mission is to structure, promote and energize the optics-photonics business line in the greater Paris area.

Opticsvalley reunites the following major players: multinational corporations and large companies, SMEs, research laboratories and professional schools.

To these can be added economic development and venture capital companies, and local governance institutions.

Opticsvalley is the result of public and private ventures joining forces. It is funded by the General Council of Essonne, the Greater Paris Area Regional Council, Alcatel and Thales.

Opticsvalley



Quantel

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Abstract

Quantel is one of the worldwide leaders for pulsed solid-state laser. Its products are used for industrial and scientific applications, as well as integrated in medical systems.

Quantel has sustained constant growth for the past ten years, with sales of more than 37 mill. EUR in 2002. Quantel and its two subsidiaries, Quantel Medical (Clermont-Ferrand, France) and Big Sky Laser (Bozeman, MN, US), have a combined workforce of 220 professionals.

A large portion of its sales come from lasers components such as in marking systems, spectrometers, systems for dentistry, etc...

Quantel is ISO9001-2000 certified and markets its products in more than 60 countries.

Keywords

Nd:YAG Laser; OEM; Industrial Laser Systems

Quantel



Mauna Kea

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Abstract

Mauna Kea Technologies is a development -stage company designing revolutionary, light-based, non-invasive medical technologies and devices to facilitate early diagnosis of major human diseases such as cancer, heart diseases or ophthalmologic pathologies. These instruments use perfectly harmless visible or infrared light and are thus part of what is now commonly referred to as "biophotonics" or "biomedical imaging". MKT's first focus for the medical market is an adjunct medical device capable of in vivo cellular imaging and specifically designed for biopsy guidance via endoscopy.

MKT's technologies also have major applications in the field of life sciences. Indeed, MKT's first product is a complete molecular and cellular imaging solution for life sciences applications.

Keywords In Vivo Imaging; Cellular Resolution; Optical Biopsy; Fluorescence Imaging

Mauna Kea



Imagine eyes

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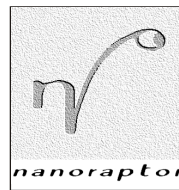
Abstract

Imagine Eyes develops new optical technologies and instruments for ophthalmology and optometry. The technologies include wavefront sensing, adaptive optical correction and human vision modelling. The instruments are proposed as either complete systems or OEM sub-systems that can be integrated by other instrument manufacturers. As a first product, Imagine Eyes released a refractive diagnostic instrument, called aberrometer, which instantaneously measures all of the optical wavefront aberrations of the eye.

Keywords

Refractive Diagnostic; Refractive Laser Surgery; Retinal Imaging; Retinal Laser Treatment

Imagine eyes



Nanoraptor

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Abstract

Nanoraptor is an Opticsvalley's incubated company. Nanoraptor develops an innovative technology for optical visualisation at nanometer scale. Its products allow for a 100-fold increase of optical microscope sensitivity, in particular for observation of ultra-thin films, very small objects and biological molecules. This technology relies upon surfaces with special optical properties - called surfs - on which the sample to observe is laid. It addresses the needs of nanotechnologies.

Keywords

Ultrathin Film Imaging; Ultrathin Film Measurement; Single Nano-object Detection; Biochip Characterization; Biochip Reading; Surface Engineering

Nanoraptor



Amplitude Technologies

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Abstract

Amplitude Technologies manufactures advanced solid-state lasers designed to meet the demanding standards of the scientific and industrial communities from X-Ray generation to micro-machining, from plasma physics to biological imaging. Amplitude Technologies bridges the gap between the advanced technology used in cutting-edge scientific applications and the ease-of-use and reliability demanded by its industrial customers. Amplitude Technologies is the leading company in the field of ultra-high energy Ti:Sapphire ultrafast lasers.

Keywords

Lasers; Ultra fast, Femtosecond; High Power Ti:Sapphire; Diode Pumped Ytterbium

Amplitude Systemes