



retina implant

Company: Retina Implant AG
Contact person: Dr. Timo Lebold
E-Mail: timo.lebold@retina-implant.de
Website: www.retina-implant.de
Address: Gerhard-Kindler-Str. 8, 72770 Reutlingen
Telephone: 0049-7121-36403-167

Short description:

Retina Implant is the first company worldwide that manufactures a subretinal implant for the restoration of vision in patients with degenerative retinal diseases. Retina Implant's approach was developed at Tübingen University Eye Hospital by Prof. Eberhart Zrenner. Retina Implant Alpha IMS presents a solution to the dire need that ophthalmologists face to date since they are unable to help patients that have become blind as a result of the degeneration of the photoreceptors in the retina. There are hardly any therapeutic drugs available and there is no way to stop the degeneration or heal the degenerated photoreceptors. With the help of the implant patients ideally can regain a useful degree of vision for completing versatile daily tasks in individual cases culminating in the recognition of letters and the differentiation of facial features.

Product / Technologies / Services:

Retina Implant Alpha IMS restores visual functions in blind retinitis pigmentosa patients by electrical stimulation of the retina through a light sensitive microchip. The chip possesses an array of 1500 pixels consisting of photodiodes, amplifiers and electrodes. This array is implanted subretinally in previously blind patients. The peripheral components of the implant consist of cables, a return electrode and a hermetic package that contains the receiver electronics for an inductive power supply of the implant. External non-implanted elements of Retina Implant Alpha IMS are a handheld device and a transponder. Retina Implant Alpha IMS is a class III medical product.

Cooperation and project partner wishes:

Retina Implant's technical cooperations are devoted to increasing implant performance and ultimately enhancing the benefit for the patient.