



imagine eyes

adaptive optics, adapted to eye care

Adaptive optics adapted to eye care

At Imagine Eyes, we develop, manufacture and market advanced ophthalmic medical devices that use wavefront and adaptive optics technologies to respond to market needs that cannot effectively be addressed using other methods.

Based in Orsay France, we founded the company around a unique approach and a common goal. Our approach unites recognized experts in domains including adaptive optics, human vision, mathematics and computer engineering into a devoted team that works closely with our customers to achieve the common goal of putting the most precise wavefront diagnostic and correction instruments available into professionals' hands.

Our first product, irx3™ Wavefront Aberrometer, released in 2003 to wide industry acclaim, provides practitioners and clinical researchers with the tools they need to improve the quality of care that they can provide to their patients. This award-winning FDA registered and CE marked¹ diagnostic device breaks through many of the barriers that have impeded other products in the past. The irx3 combines high-precision, wide dynamic range Shack-Hartmann wavefront sensing and measurement technology with patented analysis software into an easy to use, stand-alone solution.

Since then, we have continued to develop our product line by bringing new, innovative technologies to market, including the crx1™ Adaptive Optics Visual Simulator. The only device of its kind commercially available, the crx1 unites the advanced diagnostic abilities of the irx3 with the unique wavefront correction capacities of our patented mirao™ 52-d Electromagnetic Deformable Mirror into one breakthrough solution for industrial researchers and manufacturers alike.

Our satisfied customers include world-renowned practitioners, scientists and companies that use our products in a wide range of applications ranging from everyday ophthalmology practice to industrial research and development. In 2006, several independent research groups used our adaptive optics products, including mirao, to obtain ultra high-resolution images of the human retina in vivo.

We ensure quality across our organization by maintaining our ISO 9001 and 13485 certifications through the rigorous application of these standards to all of our business practices - from internal management and initial product conception through to customer support.

Imagine Eyes will continue to respond to customer needs by bringing more adaptive optics based products, originally developed by astrophysicists to improve the quality of telescopes, into the eye care profession. Currently, we are working with our customers to bring vision simulation and ultra high-resolution retinal imaging into everyday clinical practice.

For more information about us and our products, please visit our website www.imagine-eyes.com or call us on +33 (0)1 64 86 15 66.

Medical devices



The irx3™ Wavefront Aberrometer is an FDA registered and CE marked¹ medical device that provides practitioners and researchers with high-precision, high-dynamic range wavefront diagnostic solutions that fit seamlessly into your everyday workflow. Key features include:

- 1024 true optical measurement points combined with the widest dynamic range available of $\pm 10D$ astigmatism and $-15/+20D$ sphere²
- Exceptional repeatability of $0.003 D RMS^2$ thanks to our patented Hartmann-Shack “one-shot” technology
- Clinically oriented software provides exportable patient data in familiar formats including sphere, cylinder and axis, wavefront and power maps, as well as diopter-based and Zernike coefficients
- Autorefractometer, autokeratometer, infrared pupillometer and wavefront assessment of accommodation in one standard, stand-alone solution



Research equipment



We understand the unique needs that motivate our research and industrial customers. We offer a complete line of turnkey solutions that enable you to get up and running quickly, or component technologies and technical services to build adaptive optics based systems to your own unique specifications.

- irx3™ Wavefront Aberrometer¹
- crx1™ Adaptive Optics Visual Simulator
- HASO™ 32 - eye wavefront sensors
- mirao™ 52-d Electromagnetic Deformable Mirrors
- Adaptive Optics Kit & Software Suite
- Technology services to accompany you at every step



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¹ FDA registered (510k exempt) and CE marked for use as an ophthalmic diagnostic device.

² In laboratory conditions using an artificial eye. Individual results may vary.