



THE FUTURE OF ARTIFICIAL EYES.



ap**Eye**

FOCUS ON THE PATIENT

A revolution in ocular diagnostics

With apEye, patients, ophthalmologists, hospitals and clinics benefit from advances in science and technology. Our 3D-printed ocular prosthetics combine unprecedented colour fastness with the unique topography of the iris in an artificial prosthetic eye – apEye for short – and at the same time simplify the process for everyone involved.

The advantages:

- 1.** For the **patient**, the treatment is fast, uncomplicated and completely painless. With apEye, the entire process from preliminary consultation to final fitting is shortened significantly. And the result is impressive: the printed eyes are remarkably superior to conventional products and therefore ensure even greater patient satisfaction.
- 2.** With our solution, **ophthalmologists** can broaden the range of the technologies they use, underline their expertise and optimally position themselves for the future, today.
- 3.** For **doctors, hospitals and clinics**, apEye offers a solution to add to their portfolio that enables them to advise patients even more extensively and provide them more quickly with tailor-made solutions.

How apEye works

The treatment begins at the hospital or clinic where the preconditions for the production of the artificial eye are medically assessed. The patient is then referred to an ophthalmologist who conducts contactless measurement of the healthy eye and the empty eye socket in only seconds using the TOMEY CASIA2 Cornea / Anterior Segment OCT. Depending on the hospital or clinic, after only a few weeks the printed apEye is returned to the ophthalmologist who then fits it perfectly in consultation with the patient. The process is completely painless. Regular follow-up appointments are made to ensure that the artificial eye meets the requirements in terms of fit and look.





SEEING THE FUTURE TODAY

Impressive technology

With the TOMEY CASIA2 Cornea / Anterior Segment OCT, **high-tech ocular diagnostics** meets patient comfort. To this end, TOMEY has almost completely reinvented its tried-and-tested CASIA2 Cornea / Anterior Segment OCT measuring device for use in apEye production. After years of development work, the company succeeded in enhancing the existing technology in such a way that it can now perform perfect precision diagnostics for apEye within seconds.

Its ground-breaking **“Light Source Technology”** provides the basis for the literally lightning-fast scanning process which produces 257 images for a needle-sharp model. Its **high-resolution camera** is able to reproduce every nuance of colour – this and the scan of the eye socket are the prerequisites for producing a natural-looking apEye.

A partnership for satisfied patients

The data from the CASIA2 Cornea / Anterior Segment OCT are prepared for printing by means of sophisticated software developed by the Fraunhofer IGD Institute which guarantees a result that looks like a carbon copy of the natural eye. OCUPEYE, the company behind the technology, has succeeded in pooling the expertise of

several different partners to create a unique product. Moorfields Eye Hospital in London, one of the world’s most famous of its kind, contributes its established expertise in the field of ophthalmology and conducts extensive medical studies for OCUPEYE.



TOMEY GmbH · Wiesbadener Strasse 21 · 90427 Nuremberg
www.apeye.co.uk