



OCCYO ONE

Setting the standard in
ocular surface imaging





Occyo One

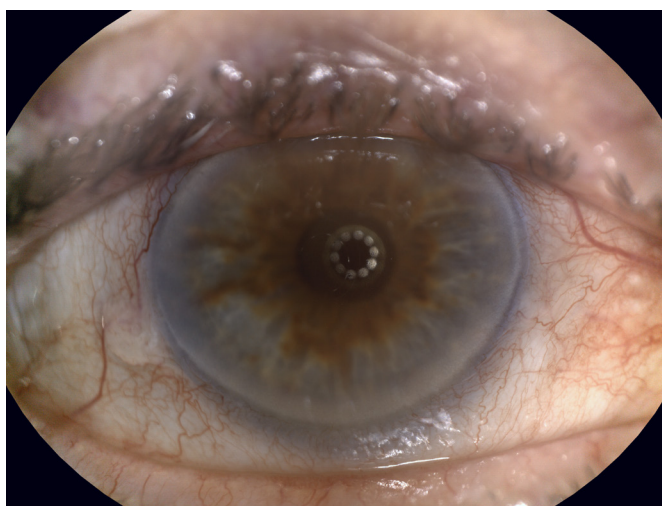
Discover Occyo One, a cutting-edge imaging system designed for standardised and high-quality external eye imaging.

- ✓ Tailored focal plane optimised for the ocular surface
- ✓ Wide field single image acquisition
- ✓ Standardised imaging settings
- ✓ Automated real-time eye tracking and image processing
- ✓ Integrated quality control by image processing
- ✓ Simple user interface with a touchscreen for operator independence
- ✓ DICOM conformance

Ocular surface imaging made easy

Occyo One transforms the documentation of ocular surface pathologies, offering a systematic approach that enhances ophthalmic care and patient outcomes. It stands as the first and only ocular surface imaging system capable of capturing fully standardised, high-quality photographs of the ocular surface.

Occyo One captures high-resolution, all-in-focus images of the cornea, sclera, conjunctiva, and lid margins, providing eye care professionals with standardised images for clinical assessment.



Easy

Automated imaging settings ensure user-independent external eye photography in standardised quality - with a simple touch of a button.



Precise

Reliably assess corneal and conjunctival disease based on high-resolution colour and fluorescein images at perfect focus over the entire visible ocular surface.



Cost-effective

Standardised photo documentation can create inter mutual benefit for both patients and eye care professionals by accelerated clinical workflows and decision-making.

Why choose Occyo One?

Detect

With Occyo One photographs, healthcare professionals can quickly and accurately assess ocular surface pathologies. A comprehensive view of the entire visible surface of the eye in a single image enhances clinical understanding. High-resolution images capture the intricate details of the eye, allowing for a comprehensive evaluation of abnormalities. Occyo One allows the depiction of even very subtle changes for early detection and prompt treatment to ensure optimal patient care.

Document

Occyo One enables reliable documentation of ocular surface pathologies over time. Systematic images help eye care providers to track the disease progression over time. Occyo One allows for rapid assessment of lesion size and crucial ocular surface biomarkers. This comprehensive tracking approach enables timely adjustments to the treatment plan, ensuring the best possible patient care and outcomes.

Intelligent photography for exceptional insights

Occyo One is an imaging system that enables standardised high-quality photography of the ocular surface. It captures high-resolution, in-focus images of the cornea and conjunctiva, providing eye care specialists with the perfect tool for ocular surface patient management.

The innovative lens design is developed to fit the shape of the human ocular surface. This allows for outstanding image quality and resolution of the entire ocular surface and enables all-in-focus snapshot images even by not-specialised operators.

The system includes an integrated fixation target, an automated focusing mechanism, and standardised illumination to ensure a high degree of reproducibility of the resulting photographs. Such reproducibility is crucial for clinical photo-documentation of ocular surface conditions, such as inflammation, dryness, and lesions, or for contact lens fit assessment. Finally, the imaging software controls the standardisation of the photographs.



Capture, document, and observe ocular surface pathologies

Occyo One presents a remarkable solution for comprehensive photo documentation and vigilant supervision of diverse ocular surface pathologies.

✓ Ocular surface biomarkers

Experience precise detection of ocular surface inflammation and corneal infections. Effortlessly evaluate ocular redness and dry eye parameters, such as punctate staining.

✓ Ocular surface lesions

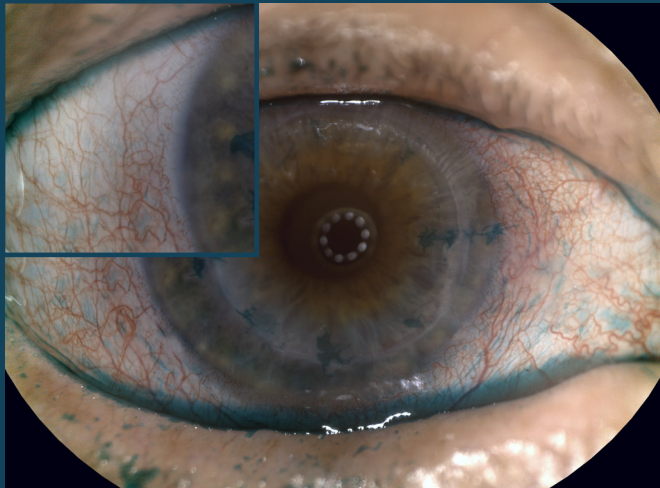
Capture details of ocular surface lesions. Delve into the intricacies and precisely assess the clinical course of corneal ulcers, epithelial defects, and corneal neovascularization.

✓ Fluorescein imaging

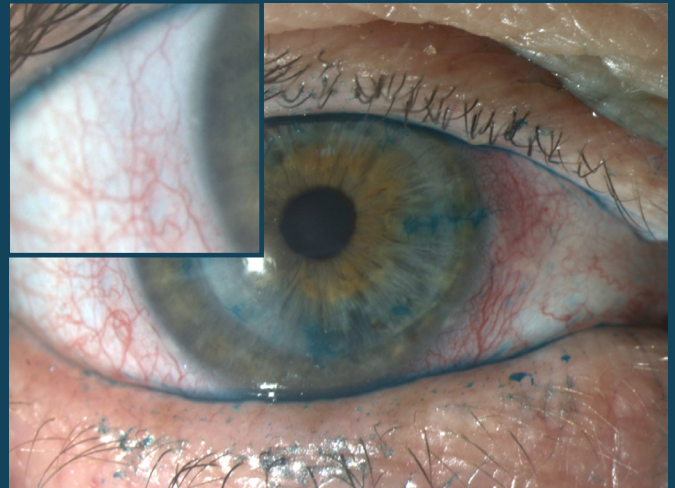
Objectively depict corneal epithelial defects, identify keratoconjunctival staining, and tear meniscus height.

Comparison with slit lamp photography

Occyo One's precision was put to the test against traditional slit lamp photography in a clinical trial at Salzburg university hospital. All cases were photographed with Occyo's system and a state-of-the-art photo slit lamp. Witness the difference in vessel precision for yourself:



Occyo One



Slit Lamp photography

Seamless integration and clinical system compatibility

Occyo One photographs are DICOM compliant, supporting flawless data transmission in your clinic. You can effortlessly integrate Occyo One images into your current clinical systems. The photographs are compatible with the DICOM viewers, ensuring a smooth workflow through the entire patient visit. View the recent image together with patient data and previous images, directly at your desk. Repeat images represent the patient's pathogenesis clearly and easily.



Patient with pinguecula, first visit

Patient with pinguecula, 20 weeks later

Consistency is the key

Image-based documentation for ocular surface patients

Reliable documentation of ocular surface pathologies over time is a prerequisite for efficient clinical workflows. Occyo One finally enables precise, image-based documentation for ocular surface diseases. Accurate follow-up imaging ensures a reliable assessment of the disease course over time.

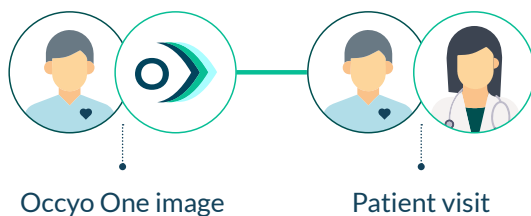
Occyo's external eye imaging system empowers healthcare professionals by providing them with valid information about a patient's condition. Our groundbreaking solution enables reformed clinical workflows in external eye patient management. Standardised high-quality ocular surface photographs allow reliable assessment of ocular surface biomarkers and can reduce the patient journey complexity compared to traditional examination methods.

Empower your practice with Occyo One

Streamlined clinical workflows

Occyo One helps streamline your clinical workflows by introducing an image-first workflow in ocular surface patient management. Traditionally, patient visits follow a set pattern: consultation, examination, and documentation. Occyo One presents a paradigm shift in this sequence, placing the image at the forefront.

Automated eye tracking and standardised imaging settings ensure effortless documentation for disease tracking - even in the hands of non-specialised personnel. With this innovative approach, qualitative documentation of the patient journey can be captured easily, just in seconds. This means that collecting quantifiable, longitudinal image data from all ocular surface pathologies is finally possible also in ocular surface patient management.



We provide solutions, where consistency meets innovation, and efficiency intertwines with accuracy. Experience the future possibilities of ocular surface patient management with Occyo One.

Optics

Optical unit	Tailored focal plane developed to fit the shape of the ocular surface
Field of view	24.5 mm x 21 mm
Imaging process	Automated alignment by eye-tracking and auto-focus Integrated fixation target Real-time quality feedback

Camera system

Image format	DICOM
Motorised movement	In 3 Axis
Standardised imaging settings	Yes
System resolution	4K (4096 x 3000)
Frames per second	10 fps

Illumination

White light	Standardised illumination settings Independent of environment lightning
Blue light	Fluorescein imaging, excitation wavelength 65 - 480 nm

User Interface and Screen

Intuitive user interface	Guiding through the entire acquisition process
Touchscreen	10.1"
Display resolution	1280 x 800 px
Aspect ratio	16:10

General

Dimensions	340 x 480 x 490 mm
Weight	~ 13 kg
Standards and certificates	EU MDR 2017/745 ISO 15004-2 IEC 60601-1 IEC 60601-1-2

We shape the future of
patient eye care by making
ocular surface imaging easy,
accurate, and accessible to
everyone around the world.



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