

Press Release

ORK-CAM software brings about new dimensions in the treatment of visual imperfections

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ORK-CAM (ORK Custom Ablation Manager), with innovative features such as aspheric profiles, brings about new dimensions in the treatment of visual imperfections (ametropia). The SCHWIND software links the company's diagnostic devices with the ESIRIS excimer laser, making it possible for the user to choose the appropriate treatment method for the patient. The innovations improve the post-operative results concerning visual acuity, glare sensitivity, as well as contrast vision and acceleration of the healing process.

The ORK-CAM-driven ESIRIS treatment allows the surgeon to perform an exact, patient-tailored ablation through corneal and ocular wavefront data. This is primarily relevant to optimization of visual acuity, but can also be employed for re-treatment. Aspheric ablation profiles assure that curvature changes of the cornea (Q-Values) are post-operatively maintained or brought to a specific standard. The ablation profile is wavefront-optimized and calculated in one step in order to ensure a highly tissue-saving ablation. Moreover, the ORK-CAM automatically accounts for energy loss correction dependent on the individual corneal curvature during treatment with the ESIRIS. New algorithms for the shot field calculation provide an extremely good reproduction of ablation volumes on the cornea and a smooth corneal surface.

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Easy and Comfortable User Management

The software checks the input values for plausibility and offers sensible defaults for easy user management: For example, the user can monitor the residual stromal thickness of 250 micrometers throughout the entire therapy planning process. Depending on the treatment type and method, the software also provides the size of the transition zone. Ablation volumes, as well as Zernike maps, can be displayed two- and three-dimensionally. All treatment parameters are listed at a glance before export to the ESIRIS excimer laser, and are synchronized between the laser and the software after import. Because at this point a calibration according to the current laser data takes occurs, therapy planning can be carried out on the previous day.

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