

Press Release

ESCRS 2005: World Premiere for Presby-CAM Special software solution for treatment of presbyopia developed

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At the ESCRS in Lisbon, SCHWIND eye-tech-solutions presents for the first time a new software solution for laser correction of presbyopia. „The central development goal of the Presby-CAM (Custom Ablation Manager) was to provide refractive surgeons and their patients with a satisfiable therapeutic option for the treatment of presbyopia in corneal laser surgery“, says Rolf Schwind, President and CEO. With the new method, the vision of presbyopic patients is significantly improved. The innovative approach of the developers compared to existing treatment methods is that the Presby-CAM enables near and far binocular vision so that depth perception remains and contrast loss is minimized. Satisfactory vision at middle distances is thereby also assured.

Optimized Profiling Process

Presby-CAM is based on the principle of Balanced Multifocal Monovision (BMM), targeting an oblate, multifocal cornea on one eye and a prolate, multifocal cornea on the other eye. One eye is optimized through negative spherical aberration in the center for far distance vision and in the periphery for near distance vision. On the other eye, the center is optimized for near distance vision and the periphery for far distance vision with positive spherical aberrations. Depending on the distance of the seen object, different areas of each eye contribute to sharpen the vision. Thus, both eyes always provides for the binocular vision. The combination of dynamic multifocality and the correction of both eyes dependent on each other enables good

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near and far distances vision with minimized effect on contrast sensitivity, maintaining the perception of three-dimensional vision as well as satisfactory vision, even in the middle distance range. The Schwind approach makes it easier for the patient to overlap both retinal images and thus, to get more quickly used to the new stereoscopic vision.

Presby-CAM connects the diagnostic systems of SCHWIND eye-tech-solutions with the ESIRIS excimer laser. Thereby all refractive correction procedures can be combined with a presbyopia treatment. As with the already established ORK-CAM software, the Presby-CAM software can be applied for sphero-cylindric as well as for corneal or ocular wavefront-based corrections and comes with innovative features such as aspheric profiles. The new product is currently under clinical evaluation.

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