

ArcScan Announces Launch of Keratoconus Evaluator for Its Insight® 100 Device for Ophthalmic Imaging

The Keratoconus Evaluator is an automated, computerized algorithm for differentiation of normal and keratoconic corneas based on epithelial and stromal thickness data. The Keratoconus Evaluator will be an integral part of the Insight® 100's software platform when the device enters the market in the first quarter of 2017.

Golden, CO ([PRWEB](#)) October 14, 2016 -- ArcScan, Inc., developer of state-of-the-art ophthalmic visualization technology, announced today the launch of its Keratoconus Evaluator for the Insight® 100, ArcScan's FDA 510(k)-cleared precision ultrasound device for imaging and biometry of the eye. The Keratoconus Evaluator is an automated, computerized algorithm for differentiation of normal and keratoconic corneas based on epithelial and stromal thickness data. The Keratoconus Evaluator will be an integral part of the Insight® 100's software platform when the device enters the market in the first quarter of 2017.

Indicated for refractive surgical planning and evaluation of anterior segment pathology, the Insight® 100 images and measures anterior chamber depth, angle-to-angle width, individual corneal layers, sulcus-to-sulcus width, and more—with micron level precision and repeatability.

The Keratoconus Evaluator will be especially valuable for deciding whether LASIK is appropriate for potential patients.

“The introduction of tomography improved our sensitivity for picking up keratoconus over topography alone, and epithelial thickness profile analysis has improved this one step further, enabling us to pick up keratoconus in cases with normal or near-normal topography,” said Dan Reinstein, MD, founder and medical director of the London Vision Clinic, chief medical officer of ArcScan, and one of the original inventors of the ArcScan technology. Dr. Reinstein is also co-author, with Ron Silverman, MD, of the study that provided the initial data for the creation of ArcScan's Keratoconus Evaluator.

If a patient is found to be ineligible for LASIK because of keratoconus, an alternative procedure better suited to the patient's needs can be recommended.

“On the flip side, in a good 8 out of 10 cases where topography and/or tomography is deemed suspicious, an epithelial thickness map can confirm that the cornea is in fact normal, enabling the patient to proceed to having corneal refractive surgery. Overall, since I developed this algorithm, we have increased our LASIK volume by 7% by not having to reject patients who come to us seeking refractive surgery. In addition, we often receive patients who have been appropriately rejected for surgery previously due to equivocal topography and find that we are safely able to perform LASIK on them,” Dr. Reinstein said.

“The Keratoconus Evaluator is the culmination of many years of work by Drs. Reinstein and Silverman using ArcScan's patented technology. This powerful tool for evaluating keratoconus, which is in its beta version, will be sent to a select group of surgeons to help refine the algorithm in anticipation of its being made available with the Insight® 100 in early 2017,” said Andy Levien, CEO of ArcScan.

To learn more about the ArcScan Insight® 100 for ophthalmic imaging and the Keratoconus Evaluator, or to schedule a demonstration, visit www.arcscan.com, email info@arcscan.com, or call +1 877.363.SCAN



(7226) or +1 720.399.8500 from outside of North America. The Insight® 100 and Keratoconus Evaluator will also be available for demonstration at the ArcScan booth, #2471, at the American Academy of Ophthalmology's annual meeting in Chicago from October 15 to 18, 2016.

About ArcScan: ArcScan is continually evolving ultrasound to provide ophthalmologists with new insights into the true anatomy of the anterior segment of the eye, including areas behind the iris. ArcScan's mission is to enable better care and treatment in ophthalmology by driving improved outcomes in refractive, corneal, cataract, and glaucoma surgery.

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