The Advanced CustomVue™ Treatment Using VISX™ Technology Is Essential To The iLASIK™ Solution

Millions of LASIK candidates have been waiting for the most advanced LASIK technology ... They’ve been waiting for the iLASIK procedure: AMO’s innovative combination of IntraLase™ technology with the Advanced CustomVue treatment using VISX technology.

The iLASIK technology solution will help you grow your refractive practice by:

- Providing an integrated platform featuring advanced technology at every step
- Driving demand for the iLASIK procedure by actively targeting all segments of “Generation i”
- Giving physicians a committed partner that is making an unmatched investment in LASIK

Combined Advantages

One company, one integrated LASIK platform and one committed refractive partner — that’s how we define the iLASIK solution. Our “forward-thinking” strategy, combining all the best LASIK technology, delivers the potential for long-term clinical advantages and ergonomic improvements, while spelling the end of the “a la carte” assemblage of system components in the laser suite.

It’s Time To Meet “Generation i”

Increasing the success of your practice means increasing the overall size of the LASIK category. Growing LASIK and growing your practice is the ultimate objective of the iLASIK solution. We’ll help you reach out to “Generation i” — the dynamic group of prospects spanning Generation Y, Generation X and Baby Boomers — by speaking their language and taking the mystery and confusion out of laser vision correction. Your marketing conversation with consumers just got a whole lot easier — it begins with the iLASIK procedure.

The “i” Changes Everything

References:
1. Data submitted to the FDA for the CustomVue High Myopia Study. Data on File.

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The Advanced CustomVue™ procedure provides the broadest range of custom wavefront-guided laser vision correction:

- Myopia (with or without astigmatism)
- High myopia (up to -11 D, with or without astigmatism)
- Mixed astigmatism
- Hyperopia (with or without astigmatism)
- Monovision for presbyopic patients with low-to-moderate myopia, with or without astigmatism

Clearer Night Vision

Clinical studies for all indications submitted to the FDA showed higher participant satisfaction with night vision after the Advanced CustomVue procedure than before with glasses or contact lenses.

“VISX™ Advanced CustomVue seems to be, in my hands at least, better than other customized ablations, because Fourier versus Zernike provides the higher resolution, and Iris Registration provides the perfect match between the measured and the treated areas.”

— Prof. Dr. Michael C. Knorz
FreeVis LASIK Zentrum Universitätsklinikum Mannheim, Germany
A new level of precision may be predictably achieved by linking the advanced refractive information of the WaveScan WaveFront™ System with the STAR S4 IR™ Excimer Laser System, providing accurate alignment and centration for every patient.

- Fourier technology captures approximately 240 data points (over a 7 mm pupil) — 25-times more precise than standard measurements for glasses or contact lenses
- The Fourier algorithm delivers the highest resolution of the wavefront error available today by utilizing 100% of the available data to design the optimal treatment
- Iris Registration (IR) uses multiple matching reference points from the iris to capture and compensate for torsional angle, as well as pupil centroid shift
- IR provides greater alignment accuracy with sub-flap iris imaging
- IR also allows for instant re-registration in the event of intraoperative cyclotorsional movement

Variable Spot Scanning (VSS™) And Variable Repetition Rate (VRR™) Technologies

VSS technology, available only from AMO, ensures the intricate shapes reconstructed by the Fourier wavefront algorithm are precisely ablated.

VRR technology delivers proprietary algorithms that vary the laser’s pulse rate. By continually changing the size and placement of the beam, VRR technology provides:

- The ability to deliver Fourier shapes with optimized ablation time while ensuring minimal thermal impact on the cornea
- More accurate reconstruction of wavefront profile and intricate ablation shapes
- Faster treatment times
- Smoother ablation profiles

Combined, VSS and VRR technologies:

- Minimize thermal effects and optimize clinical results
- Achieve the ideal treatment speed by mixing the pulse sizes, distribution and repetition rate
- Provide potentially better overall outcomes, including night vision quality

Even the slightest shift between eye alignment and treatment alignment can prevent optimum outcomes.
Monovision Treatment For Presbyopic Myopia Patients

The Advanced CustomVue™ procedure is the first and only FDA-approved wavefront-guided monovision treatment to correct both near and distance vision with low-to-moderate myopia, with or without astigmatism.

At 12 months:

- 99% of study participants achieved binocular near UCVA of 20/25 or better
- 97% achieved binocular distance UCVA of 20/25 or better
- 86% of study participants achieved 20/20 or better for both uncorrected near and distance visual acuity

80% of study participants achieved satisfaction with their results

“We finally have the option to provide presbyopic patients with near vision correction that matches the accuracy and quality of vision we routinely achieve for distance correction. The Advanced CustomVue Monovision procedure sets a new standard for visual outcomes and patient satisfaction.”

— Douglas D. Koch, MD
Baylor Vision
Texas, USA

Building On A Legacy
Of Innovation

Advanced CustomVue Monovision®
Simultaneous UCVA and UCNA

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RESE™ Wavefront-guided LASIK for Correction of Myopia, Hyperopia, and Mixed Astigmatism and Monovision-guided Monovision LASIK for Presbyopic Myopes (CustomVue™ LASIK Laser Treatment)

Conclusions

Of the 131 eyes eligible for the uncorrected visual acuity (UCVA) analysis of effectiveness at 6 months, 98.3% were corrected to 20/40 or better, and 56.1% were corrected to 20/20 or better in 57 astigmatic hyperopia eyes. At 12 months, 97.3% were corrected to 20/40 or better, and 66.2% were corrected to 20/20 or better in 74 spherical hyperopia eyes.

As with any surgical procedure, there are risks associated with the CustomVue treatment. Before treating patients with the CustomVue procedure, you should carefully review the Professional Use Information Manual, complete the Physician CustomVue Information Manuals for the VISX STAR S4™ Excimer Laser System and WaveScan WaveFront™ System (CustomVue Treatments).

VISX™ Wavefront-guided LASIK for Correction of Myopia, Hyperopia, and Mixed Astigmatism

Abstract

The Advanced CustomVue™ procedure is a potentially powerful step forward in presbyopia treatment and provides an alternative for restoring near vision for patients who are not candidates for monovision LASIK treatments. Because the CustomVue procedure is near vision selective, it corrects near vision without sacrificing distance vision.

Patients and Methods

The VISX STAR S4 IR™ Excimer Laser System with VSS™ Technology and WaveScan WaveFront System are approved to perform wavefront-guided laser assisted in-situ keratomileusis (LASIK) treatments to achieve monovision by the targeted retention of myopia (-1.25 to -2.00 D) in the post-operative refractive error of the operated eye or are corrected to near vision 20/20 or better. Additionally, the procedure may provide for the correction of myopia, hyperopia, or mixed astigmatism.

The technology that VISX has developed is a Communication Aperture System (CAS) in which the spot size is slightly smaller than the optical zone radius (OZR) to assure uninterrupted ablation in the center of the optical zone, with minimal peripheral cutting.

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The studies concluded that the use of the Combined Simultaneous UCVA and UCNVA procedure sets a new standard for visual outcomes and patient satisfaction. The studies found that the Combined Simultaneous UCVA and UCNVA procedure sets a new standard for visual outcomes and patient satisfaction.

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